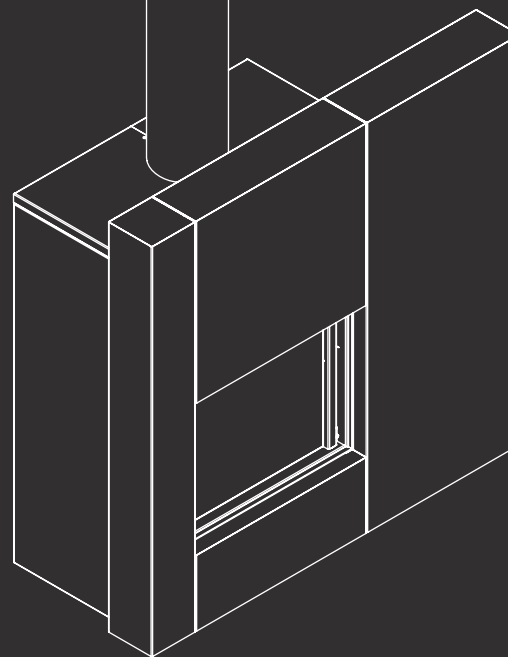
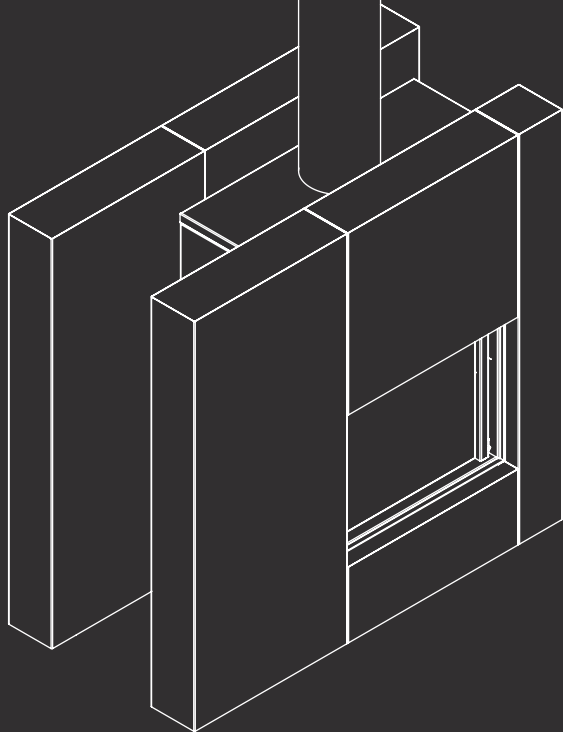


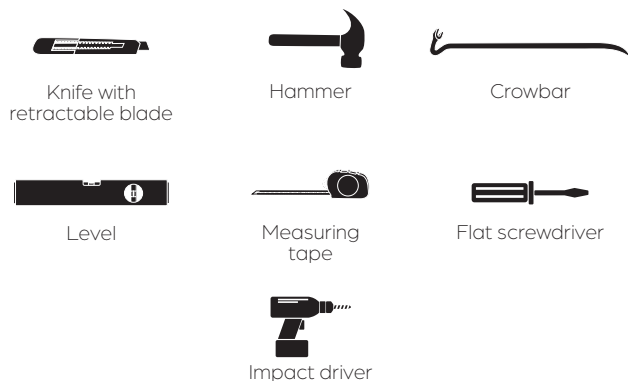
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INSTALLATION MANUAL

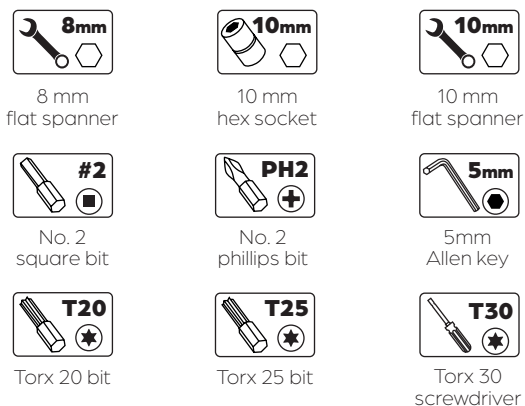
Keep these instructions for future reference



REQUIRED TOOLS



REQUIRED HARDWARE



REQUIRED MATERIAL

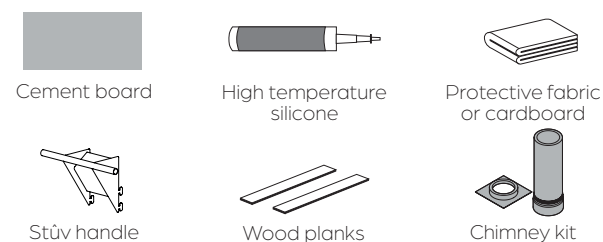


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CERTIFICATION

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1.1 CERTIFICATION



Tested and certified by CSA
as for standard:

ULC-S610 : 2018 & UL 127 – 9th Edition

EPA Not applicable for decorative wood burning fireplaces

CHIMNEY : UL-103HT or ULC-S629

This wood heater must be installed in accordance with standard **CSA B365 (Canada) or N.F.P.A. 211 (United States)**, the Installation Code for Solid-Fuel-Burning Appliances and Equipment, the applicable building code and standards applicable to the structure in which the insert will be installed.

The instructions for the installation of this wood heater comply with the above-mentioned standards. They must be closely followed to eliminate the risk of serious problems.

This Stûv unit must be installed by a qualified professional. Improper installation could result in a fire.

To reduce the risk of fire, read this manual carefully before installing or using the wood heater. If the installation instructions are not followed and the wood heater is improperly installed, the risk of incident increases. This can result in fire, property damage, bodily injury and even death.

Keep these instructions for future reference.

1.2 TECHNICAL SPECIFICATIONS



SINGLE FACE	s21-sf 85	s21-sf 95	s21-sf 105	s21-sf 125
Maximum power BTU/h	44 000*	43 000*	65 000*	60 000*
Performance	77%	< 70%	77%	< 70%
Fines particule emission	EPA Not applicable for decorative wood burning fireplaces			
Max log length	24"	28"	32"	40"
Weight	775 lb.	925 lb.	765 lb.	975 lb.
Combustion chamber volume	4.77 pi ³	6.58 pi ³	5.28 pi ³	8.38 pi ³
Wood consumption/H	12-14 lb.	13-15 lb.	12-14 lb.	13-15 lb.
Maximum wood/H concomption (to avoid overheating)	26 lb	28 lb	26 lb	28 lb
Fuel	WOOD			

DOUBLE FACE	s21-df 85	s21-df 95	s21-df 125
Maximum power BTU/h	48 000*	50 000*	61 000*
Performance	72%	< 70%	< 70%
Fines particule emission	EPA Not applicable for decorative wood burning fireplaces		
Max log length	24"	28"	40"
Weight	885 lb.	1055 lb.	1100 lb.
Combustion chamber volume	6.47 pi ³	8.4 pi ³	10.61 pi ³
Wood consumption/H	13-15 lb.	13-15 lb.	13-15 lb.
Maximum wood/H concomption (to avoid overheating)	28 lb	28 lb	28 lb
Fuel	WOOD		

* These nominal heat outputs were obtained according to a European testing protocol.

NOTE

We strongly recommend that our products be installed and maintained by professionals certified by the Association des Professionnels du Chauffage if you are in Quebec or by Wood Energy Technical Training for the rest of Canada, and by the National Fireplace Institute in the United States.



1.3 SAFETY INSTRUCTIONS



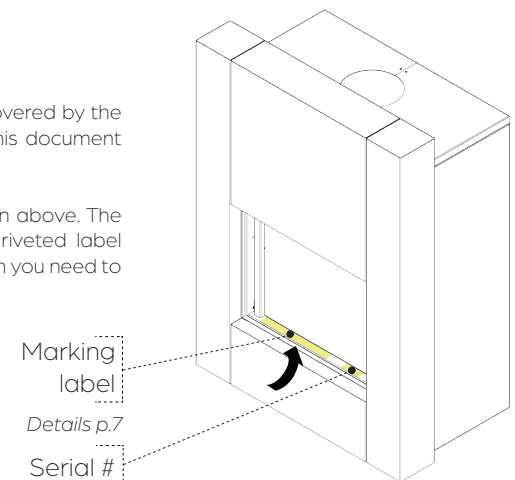
ATTENTION

1. This manual is strictly dedicated to the installation of the s21CLAD fireplace in combination with a cladding. It is critical to the s21CLAD to be installed only with a Stûv cladding.
2. Unlike the s21, which is equipped with a mandatory insulated shell and convection system, it is strictly forbidden to install the s21CLAD fireplace in any type of building material, even if it is non-combustible. Refer to the s21 model and installation instructions if wall installation is desired.
3. It is essential that the installation of this Stûv be carried out by a qualified professional. For all applicable regulatory requirements, contact the local fire department before beginning work.
4. The instructions for the installation of this unit comply with the abovementioned standards. They must be closely followed to eliminate the risk of serious problems. Any use contrary to the user manual is a violation of federal law.
5. Improper installation of this Stûv unit could result in a fire. To reduce the risk of fire, follow the installation instructions to the letter. Failure to follow the instructions in this manual may result in property damage, bodily injury or death.
6. This unit requires periodic inspection and maintenance for proper operation (minimum three times during the heating season).
7. Any modifications made to this unit may pose a hazard and will void the warranty. Should repairs be necessary, use only Stûv replacement parts.
8. Combustible materials such as firewood, wet clothing, etc. placed too close to the unit could catch fire.
9. We recommend storing solid fuels in a clean, dry environment. Do not place this type of fuel within the risk area or in the loading/ash removal area.
10. Never use the fireplace with the door open unless it is equipped with a firescreen (available as an option).
11. Never leave the fireplace unattended when the door is open.
12. Always close the door after the ignition period.
13. Do not burn garbage, plastic, petroleum-based materials, gasoline, rubber, industrial solvents, flammable liquids such as naphtha and motor oil, paper, cardboard, wood extracted from salt water and dried, painted wood or any substance that emit dense fumes and strong odours.
14. Make sure the home is equipped with a smoke and carbon monoxide detector.
15. Do not connect this appliance to a chimney flue serving another appliance.
16. This unit is hot when in use. Keep children, clothing and furniture at a safe distance. Touching the appliance while it is in operation may cause burns.
17. Some parts of the fireplace can be very hot when operated at rated capacity.
18. Do not allow the fireplace to heat to the point where parts become red.
19. Do not use a grate or other methods to elevate the fuel. Burn firewood directly on the firebricks.

20. Do not overheat the unit. Attempting to exceed the single burn rate of this unit may permanently damage it.
21. Conduct regular maintenance of the fireplace as previously recommended.
22. Never use chemicals or other liquids such as gasoline, gasoline-based lantern fuel, kerosene, charcoal liquid, or similar liquids to start or feed a fire in the fireplace. Keep all such liquids away from the unit while it is in operation.
23. Do not install this unit in a mobile home in the United States. See chimney section for installation in Canada..
24. The air inlets and outlets must remain free of obstacles at all times.
25. The installation of the unit must comply with all local and national regulations.
26. Inspect and sweep the chimney frequently. In certain operating conditions, creosote can build up quickly. Inspect and repair the insert to ensure proper operation.
27. Objects placed in front of the unit must be kept at a distance of at least 48" (4') from the unit's glass face.
28. WARNINGS FOR TRANSPORTABLE BUILDING :
 - It is permit to install this unit in a transportable building in **CANADA ONLY**.
 - Do not install in sleeping room.
 - The structural integrity of the mobile home floor, wall and ceiling/roof must be maintained.
 - Remove the chimney for transportation of the building.
 - The device must be permanently fixed to the floor to be installed in a transportable building. (page 29)

This Stûv fireplace must be registered to be covered by the warranty. Please refer to the last section of this document for guidance.

The marking label is located on the cap shown above. The product serial number can be found on the riveted label above the hearth. You will find all the information you need to register your product.



1.4 MARKING LABELS



MODELS/MODÈLES : STÛV-CLAD 21-75 DF, 21-85 DF

MANUFACTURED BY / FABRIQUÉ PAR :
STÛV S.A. rue Jules Borbouse 4 B-5170
Bois-de-Villers, Belgium [stuv.be]

DATE OF MANUFACTURE / DATE DE FABRICATION				
2024	JAN	FEB	MAR	APR
2025	MAY	JUN	JUL	AUG
2026	SEP	OCT	NOV	DEC

STÛV 21-CLAD _ 000 000

LABEL NO. / NO. D'ÉTIQUETTE :



**CERTIFIED AND CONFORMS TO :
CERTIFIÉ CONFORMÈMENT SELON :**
ULC-S610 : 2018 & UL 127 - 9th Edition,
U.S. ENVIRONMENTAL PROTECTION AGENCY
Not affected wood heaters / Non applicable aux foyers aux bois

LISTED FACTORY BUILT FIREPLACE
NOT SUITABLE FOR MOBILE HOME INSTALLATION.
Certified for use in Canada and United States.
FOYER HOMOLOGUÉ CONSTRUIT EN USINE
NE PAS INSTALLER DANS UNE MAISON MOBILE.
Usage homologué au Canada et aux États-Unis.

CHIMNEY TYPE (See manual for appropriate choice)
Use only a 10 inch insulated chimney listed per ULC-S629 ou UL-103HT.

TYPE DE CHEMINÉE (Voir la notice d'installation pour les bons choix)
Utiliser uniquement une cheminée de 10 pouces isolée répertoriée selon la norme ULC-S629 ou UL-103HT

MADE IN BELGIUM / FABRIQUÉ EN BELGIQUE

**Clearance to combustible materials using the Stûv insulated shell /
Dégagement aux matériaux combustibles utilisant le caisson isolé Stûv :**
SIDE WALL / PAROIS LATÉRALES: 0 mm (0")
BACK WALL / MUR ARRIÈRE: 0 mm (0")
CEILING / PLAFOND: 2,13 m (8'4")

Couvrir le plancher de 2 épaisseurs de panneaux de fibrociment 1/2".
SUIVRE LES INSTRUCTIONS DANS LA NOTICE D'INSTALLATION POUR LES DÉTAILS.

Cover floor using 2 layers of 1/2" fibrocement board.
FOLLOW THE INSTALLATION INSTRUCTIONS IN THE OWNER'S MANUAL FOR DETAILS.

Do not use a fireplace insert or other products not specified for use with this product.

Ne pas utiliser d'encastables ou autres produits non spécifiés avec ce foyer.

DO NOT REMOVE THIS LABEL / NE PAS RETIRER CETTE ÉTIQUETTE

- Fuel : Cord wood Only.
- Floor must be protected as specified in the manual. For safe operation, install in accordance with the manufacturer's instructions.
- Replace glass only with Stûv's ceramic glass 4 mm thick.
- Do not operate unit with door open except by using a screen.
- Components used with fireplace must be listed. See manual.
- Contact your local building or fire officials about restrictions and installation inspections in your area.
- Unit must be connected to a minimum of 2 ambient-air inlet and 2 hot-air outlet using 6" flexible insulated system (Stûv).
- Do not obstruct air inlet and outlet in any case.
- Refer to manual for optional components.
- Do not connect this unit to a chimney flue serving another appliance.
- Inspect and clean chimney frequently - Under certain conditions of use, creosote buildup may occur rapidly. Do not overfire unit.
- **CAUTION** When a fire is burning in the fireplace, fresh air must be supplied to the room where the fireplace is located. Failure to provide this may starve other fuel burning appliance from an adequate air supply.

- Combustible : Bois de corde seulement.
- Le plancher doit être protégé tel que spécifié dans la notice d'installation. Pour un fonctionnement sécuritaire, installez conformément aux directives du fabricant.
- Remplacez le verre uniquement par un verre de céramique Stûv 4 mm d'épaisseur.
- Ne pas utiliser l'appareil la porte ouverte sauf utilisant un pare-éclincelles.
- Les composants utilisés dans l'appareil doivent être répertoriés. Voir manuel.
- Communiquez avec les autorités locales en matière de construction ou d'incendie pour connaître les restrictions et inspections d'installation dans votre région.
- Cet appareil doit être raccordé à un minimum de 2 entrées d'air ambiant et 2 sorties d'air chaud avec des conduits flexible 6" isolés (Stûv).
- Ne pas obstruer les entrées et sorties d'air en aucun cas.
- Ne reliez pas cet appareil à un conduit de cheminée servant un autre appareil.
- Inspectez et nettoyez la cheminée fréquemment - Dans certaines conditions d'utilisation, l'accumulation de créosote peut se faire rapidement.
- Ne pas surchauffer l'appareil.
- **ATTENTION** : Lorsque le foyer brûle, un apport d'air supplémentaire doit être prévu dans la pièce. Un manque d'air d'appont pourrait priver les autres appareils de combustion d'une alimentation d'air adéquate.

MODELS/MODÈLES : STÛV-CLAD 21-95 DF, 21-125 DF

MANUFACTURED BY / FABRIQUÉ PAR :
STÛV S.A. rue Jules Borbouse 4 B-5170
Bois-de-Villers, Belgium [stuv.be]

DATE OF MANUFACTURE / DATE DE FABRICATION				
2024	JAN	FEB	MAR	APR
2025	MAY	JUN	JUL	AUG
2026	SEP	OCT	NOV	DEC

STÛV 21-CLAD _ 000 000

LABEL NO. / NO. D'ÉTIQUETTE :



**CERTIFIED AND CONFORMS TO :
CERTIFIÉ CONFORMÈMENT SELON :**
ULC-S610 : 2018 & UL 127 - 9th Edition,
U.S. ENVIRONMENTAL PROTECTION AGENCY
Not affected wood heaters / Non applicable aux foyers aux bois

LISTED FACTORY BUILT FIREPLACE
NOT SUITABLE FOR MOBILE HOME INSTALLATION.
Certified for use in Canada and United States.
FOYER HOMOLOGUÉ CONSTRUIT EN USINE
NE PAS INSTALLER DANS UNE MAISON MOBILE.
Usage homologué au Canada et aux États-Unis.

CHIMNEY TYPE (See manual for appropriate choice)
Use only a 12 inch insulated chimney listed per ULC-S629 ou UL-103HT.

TYPE DE CHEMINÉE (Voir la notice d'installation pour les bons choix)
Utiliser uniquement une cheminée de 12 pouces isolée répertoriée selon la norme ULC-S629 ou UL-103HT

MADE IN BELGIUM / FABRIQUÉ EN BELGIQUE

**Clearance to combustible materials using the Stûv insulated shell /
Dégagement aux matériaux combustibles utilisant le caisson isolé Stûv :**
SIDE WALL / PAROIS LATÉRALES: 0 mm (0")
BACK WALL / MUR ARRIÈRE: 0 mm (0")
CEILING / PLAFOND: 2,13 m (8'4")

Couvrir le plancher de 2 épaisseurs de panneaux de fibrociment 1/2".
SUIVRE LES INSTRUCTIONS DANS LA NOTICE D'INSTALLATION POUR LES DÉTAILS.

Cover floor using 2 layers of 1/2" fibrocement board.
FOLLOW THE INSTALLATION INSTRUCTIONS IN THE OWNER'S MANUAL FOR DETAILS.

Do not use a fireplace insert or other products not specified for use with this product.

Ne pas utiliser d'encastables ou autres produits non spécifiés avec ce foyer.

DO NOT REMOVE THIS LABEL / NE PAS RETIRER CETTE ÉTIQUETTE

- Fuel : Cord wood Only.
- Floor must be protected as specified in the manual. For safe operation, install in accordance with the manufacturer's instructions.
- Replace glass only with Stûv's ceramic glass 4 mm thick.
- Do not operate unit with door open except by using a screen.
- Components used with fireplace must be listed. See manual.
- Contact your local building or fire officials about restrictions and installation inspections in your area.
- Unit must be connected to a minimum of 2 ambient-air inlet and 2 hot-air outlet using 6" flexible insulated system (Stûv).
- Do not obstruct air inlet and outlet in any case.
- Refer to manual for optional components.
- Do not connect this unit to a chimney flue serving another appliance.
- Inspect and clean chimney frequently - Under certain conditions of use, creosote buildup may occur rapidly. Do not overfire unit.
- **CAUTION** When a fire is burning in the fireplace, fresh air must be supplied to the room where the fireplace is located. Failure to provide this may starve other fuel burning appliance from an adequate air supply.

- Combustible : Bois de corde seulement.
- Le plancher doit être protégé tel que spécifié dans la notice d'installation. Pour un fonctionnement sécuritaire, installez conformément aux directives du fabricant.
- Remplacez le verre uniquement par un verre de céramique Stûv 4 mm d'épaisseur.
- Ne pas utiliser l'appareil la porte ouverte sauf utilisant un pare-éclincelles.
- Les composants utilisés dans l'appareil doivent être répertoriés. Voir manuel.
- Communiquez avec les autorités locales en matière de construction ou d'incendie pour connaître les restrictions et inspections d'installation dans votre région.
- Cet appareil doit être raccordé à un minimum de 2 entrées d'air ambiant et 2 sorties d'air chaud avec des conduits flexible 6" isolés (Stûv).
- Ne pas obstruer les entrées et sorties d'air en aucun cas.
- Ne reliez pas cet appareil à un conduit de cheminée servant un autre appareil.
- Inspectez et nettoyez la cheminée fréquemment - Dans certaines conditions d'utilisation, l'accumulation de créosote peut se faire rapidement.
- Ne pas surchauffer l'appareil.
- **ATTENTION** : Lorsque le foyer brûle, un apport d'air supplémentaire doit être prévu dans la pièce. Un manque d'air d'appont pourrait priver les autres appareils de combustion d'une alimentation d'air adéquate.

MODELS/MODÈLES : STÛV-CLAD 21-65H*, 21-75*, 21-85, 21-105 SF

MANUFACTURED BY / FABRIQUÉ PAR :
STÛV S.A. rue Jules Borbouse 4 B-5170
Bois-de-Villers, Belgium [stuv.be]

DATE OF MANUFACTURE / DATE DE FABRICATION				
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2025	MAY	JUN	JUL	AUG
2026	SEP	OCT	NOV	DEC

STÛV 21-CLAD _ 000 000

LABEL NO. / NO. D'ÉTIQUETTE :



**CERTIFIED AND CONFORMS TO :
CERTIFIÉ CONFORMÈMENT SELON :**
ULC-S610 : 2018 & UL 127 - 9th Edition,
U.S. ENVIRONMENTAL PROTECTION AGENCY
Not affected wood heaters / Non applicable aux foyers aux bois

LISTED FACTORY BUILT FIREPLACE
NOT SUITABLE FOR MOBILE HOME INSTALLATION.
Certified for use in Canada and United States.
FOYER HOMOLOGUÉ CONSTRUIT EN USINE
NE PAS INSTALLER DANS UNE MAISON MOBILE.
Usage homologué au Canada et aux États-Unis.

CHIMNEY TYPE (See manual for appropriate choice)
Use only a 8 inch insulated chimney listed per ULC-S629 ou UL-103HT.

TYPE DE CHEMINÉE (Voir la notice d'installation pour les bons choix)
Utiliser uniquement une cheminée de 8 pouces isolée répertoriée selon la norme ULC-S629 ou UL-103HT

MADE IN BELGIUM / FABRIQUÉ EN BELGIQUE

**Clearance to combustible materials using the Stûv insulated shell /
Dégagement aux matériaux combustibles utilisant le caisson isolé Stûv :**
SIDE WALL / PAROIS LATÉRALES: 0 mm (0")
BACK WALL / MUR ARRIÈRE: 0 mm (0")
CEILING / PLAFOND: 2,13 m (8'4")

Couvrir le plancher de 2 épaisseurs de panneaux de fibrociment 1/2".
SUIVRE LES INSTRUCTIONS DANS LA NOTICE D'INSTALLATION POUR LES DÉTAILS.

Cover floor using 2 layers of 1/2" fibrocement board.
FOLLOW THE INSTALLATION INSTRUCTIONS IN THE OWNER'S MANUAL FOR DETAILS.

Do not use a fireplace insert or other products not specified for use with this product.

Ne pas utiliser d'encastables ou autres produits non spécifiés avec ce foyer.

DO NOT REMOVE THIS LABEL / NE PAS RETIRER CETTE ÉTIQUETTE

* models 21-65H SF & 21-75 SF may not be sold or operated within the United States.

- Fuel : Cord wood Only.
- Floor must be protected as specified in the manual. For safe operation, install in accordance with the manufacturer's instructions.
- Replace glass only with Stûv's ceramic glass 4 mm thick.
- Do not operate unit with door open except by using a screen.
- Components used with fireplace must be listed. See manual.
- Contact your local building or fire officials about restrictions and installation inspections in your area.
- Unit must be connected to a minimum of 2 ambient-air inlet and 2 hot-air outlet using 6" flexible insulated system (Stûv).
- Do not obstruct air inlet and outlet in any case.
- Refer to manual for optional components.
- Do not connect this unit to a chimney flue serving another appliance.
- Inspect and clean chimney frequently - Under certain conditions of use, creosote buildup may occur rapidly. Do not overfire unit.
- **CAUTION** When a fire is burning in the fireplace, fresh air must be supplied to the room where the fireplace is located. Failure to provide this may starve other fuel burning appliance from an adequate air supply.

- Combustible : Bois de corde seulement.
- Le plancher doit être protégé tel que spécifié dans la notice d'installation. Pour un fonctionnement sécuritaire, installez conformément aux directives du fabricant.
- Remplacez le verre uniquement par un verre de céramique Stûv 4 mm d'épaisseur.
- Ne pas utiliser l'appareil la porte ouverte sauf utilisant un pare-éclincelles.
- Les composants utilisés dans l'appareil doivent être répertoriés. Voir manuel.
- Communiquez avec les autorités locales en matière de construction ou d'incendie pour connaître les restrictions et inspections d'installation dans votre région.
- Cet appareil doit être raccordé à un minimum de 2 entrées d'air ambiant et 2 sorties d'air chaud avec des conduits flexible 6" isolés (Stûv).
- Ne pas obstruer les entrées et sorties d'air en aucun cas.
- Ne reliez pas cet appareil à un conduit de cheminée servant un autre appareil.
- Inspectez et nettoyez la cheminée fréquemment - Dans certaines conditions d'utilisation, l'accumulation de créosote peut se faire rapidement.
- Ne pas surchauffer l'appareil.
- **ATTENTION** : Lorsque le foyer brûle, un apport d'air supplémentaire doit être prévu dans la pièce. Un manque d'air d'appont pourrait priver les autres appareils de combustion d'une alimentation d'air adéquate.

MODELS/MODÈLES : STÛV-CLAD 21-95 SF, 21-125 SF, 21-135 SF

MANUFACTURED BY / FABRIQUÉ PAR :
STÛV S.A. rue Jules Borbouse 4 B-5170
Bois-de-Villers, Belgium [stuv.be]

DATE OF MANUFACTURE / DATE DE FABRICATION				
2024	JAN	FEB	MAR	APR
2025	MAY	JUN	JUL	AUG
2026	SEP	OCT	NOV	DEC

STÛV 21-CLAD _ 000 000

LABEL NO. / NO. D'ÉTIQUETTE :



**CERTIFIED AND CONFORMS TO :
CERTIFIÉ CONFORMÈMENT SELON :**
ULC-S610 : 2018 & UL 127 - 9th Edition,
U.S. ENVIRONMENTAL PROTECTION AGENCY
Not affected wood heaters / Non applicable aux foyers aux bois

LISTED FACTORY BUILT FIREPLACE
NOT SUITABLE FOR MOBILE HOME INSTALLATION.
Certified for use in Canada and United States.
FOYER HOMOLOGUÉ CONSTRUIT EN USINE
NE PAS INSTALLER DANS UNE MAISON MOBILE.
Usage homologué au Canada et aux États-Unis.

CHIMNEY TYPE (See manual for appropriate choice)
Use only a 10 inch insulated chimney listed per ULC-S629 ou UL-103HT.

TYPE DE CHEMINÉE (Voir la notice d'installation pour les bons choix)
Utiliser uniquement une cheminée de 10 pouces isolée répertoriée selon la norme ULC-S629 ou UL-103HT

MADE IN BELGIUM / FABRIQUÉ EN BELGIQUE

**Clearance to combustible materials using the Stûv insulated shell /
Dégagement aux matériaux combustibles utilisant le caisson isolé Stûv :**
SIDE WALL / PAROIS LATÉRALES: 0 mm (0")
BACK WALL / MUR ARRIÈRE: 0 mm (0")
CEILING / PLAFOND: 2,13 m (8'4")

Couvrir le plancher de 2 épaisseurs de panneaux de fibrociment 1/2".
SUIVRE LES INSTRUCTIONS DANS LA NOTICE D'INSTALLATION POUR LES DÉTAILS.

Cover floor using 2 layers of 1/2" fibrocement board.
FOLLOW THE INSTALLATION INSTRUCTIONS IN THE OWNER'S MANUAL FOR DETAILS.

Do not use a fireplace insert or other products not specified for use with this product.

Ne pas utiliser d'encastables ou autres produits non spécifiés avec ce foyer.

DO NOT REMOVE THIS LABEL / NE PAS RETIRER CETTE ÉTIQUETTE

- Fuel : Cord wood Only.
- Floor must be protected as specified in the manual. For safe operation, install in accordance with the manufacturer's instructions.
- Replace glass only with Stûv's ceramic glass 4 mm thick.
- Do not operate unit with door open except by using a screen.
- Components used with fireplace must be listed. See manual.
- Contact your local building or fire officials about restrictions and installation inspections in your area.
- Unit must be connected to a minimum of 2 ambient-air inlet and 2 hot-air outlet using 6" flexible insulated system (Stûv).
- Do not obstruct air inlet and outlet in any case.
- Refer to manual for optional components.
- Do not connect this unit to a chimney flue serving another appliance.
- Inspect and clean chimney frequently - Under certain conditions of use, creosote buildup may occur rapidly. Do not overfire unit.
- **CAUTION** When a fire is burning in the fireplace, fresh air must be supplied to the room where the fireplace is located. Failure to provide this may starve other fuel burning appliance from an adequate air supply.

- Combustible : Bois de corde seulement.
- Le plancher doit être protégé tel que spécifié dans la notice d'installation. Pour un fonctionnement sécuritaire, installez conformément aux directives du fabricant.
- Remplacez le verre uniquement par un verre de céramique Stûv 4 mm d'épaisseur.
- Ne pas utiliser l'appareil la porte ouverte sauf utilisant un pare-éclincelles.
- Les composants utilisés dans l'appareil doivent être répertoriés. Voir manuel.
- Communiquez avec les autorités locales en matière de construction ou d'incendie pour connaître les restrictions et inspections d'installation dans votre région.
- Cet appareil doit être raccordé à un minimum de 2 entrées d'air ambiant et 2 sorties d'air chaud avec des conduits flexible 6" isolés (Stûv).
- Ne pas obstruer les entrées et sorties d'air en aucun cas.
- Ne reliez pas cet appareil à un conduit de cheminée servant un autre appareil.
- Inspectez et nettoyez la cheminée fréquemment - Dans certaines conditions d'utilisation, l'accumulation de créosote peut se faire rapidement.
- Ne pas surchauffer l'appareil.
- **ATTENTION** : Lorsque le foyer brûle, un apport d'air supplémentaire doit être prévu dans la pièce. Un manque d'air d'appont pourrait priver les autres appareils de combustion d'une alimentation d'air adéquate.

2

COMPONENTS

2.1	LIST OF COMPONENTS	8
2.2	OPTIONAL KITS	11

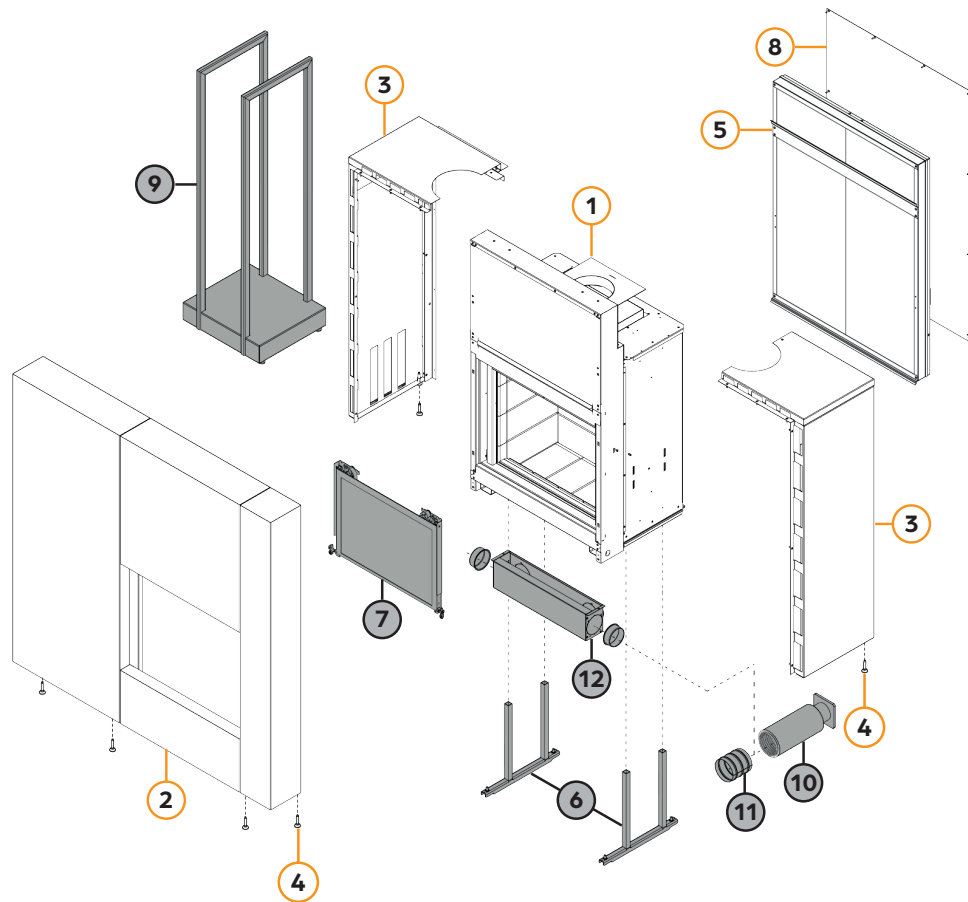


2.1 LIST OF COMPONENTS



SINGLE FACE (SF)

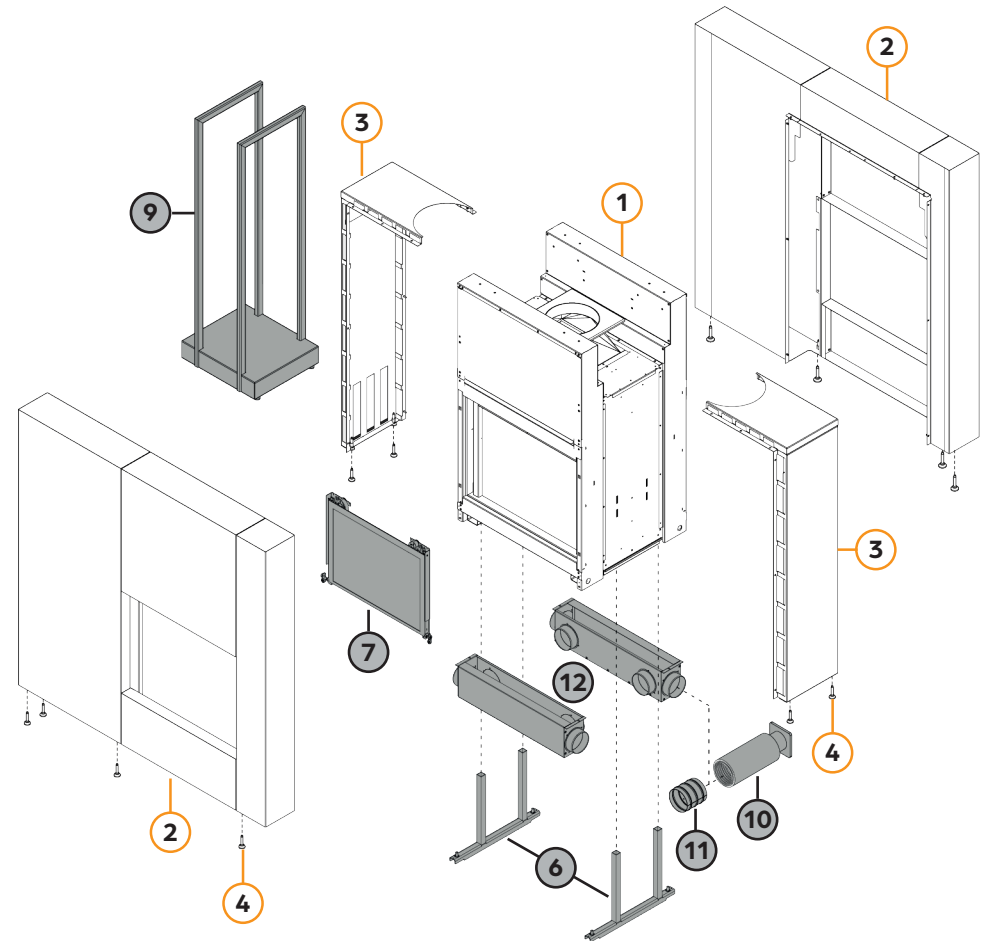
See table for code and description



○ Included
● Option

DOUBLE FACE (DF)

See table for code and description



○ Included
● Option

2.1 LIST OF COMPONENTS



s[21CLAD]sf 85

#	DESCRIPTION	PRODUCT CODE	INCLUDED OR OPTION	Q ^{TY}
1	Fireplace	N/A	Included	1
2	Cladding frontage	N/A	Included	1
3	Cladding side	N/A	Included	2
4	Cladding feet	14997881	Included	6
5	Back insulated wall	N/A	Included	1
6	s21CLAD support	13002022	Included	1
7	Guillotine fire screen	13012157	Option	1
8	Back panel	1121921X	Option	1
9	Log rack	1123090X	Option	1
10	Outside air kit	12002138	Option	1
11	Air damper 4"	12001027	Option	1
12	Airtight box	12002091	Option	1

s[21CLAD]sf 95

#	DESCRIPTION	PRODUCT CODE	INCLUDED OR OPTION	Q ^{TY}
1	Fireplace	N/A	Included	1
2	Cladding frontage	N/A	Included	1
3	Cladding side	N/A	Included	2
4	Cladding feet	14997881	Included	6
5	Back insulated wall	N/A	Included	1
6	s21CLAD support	13002022	Included	1
7	Guillotine fire screen	13012158	Option	1
8	Back panel	1121921X	Option	1
9	Log rack	1123090X	Option	1
10	Outside air kit	12002138	Option	1
11	Air damper 4"	12001027	Option	1
12	Airtight box	12002094	Option	1

s[21CLAD]sf 105

#	DESCRIPTION	PRODUCT CODE	INCLUDED OR OPTION	Q ^{TY}
1	Fireplace	N/A	Included	1
2	Cladding frontage	N/A	Included	1
3	Cladding side	N/A	Included	2
4	Cladding feet	14997881	Included	6
5	Back insulated wall	N/A	Included	1
6	s21CLAD support	13002022	Included	1
7	Guillotine fire screen	13012159	Option	1
8	Back panel	1121981X	Option	1
9	Log rack	1123090X	Option	1
10	Outside air kit	12002138	Option	1
11	Air damper 4"	12001027	Option	1
12	Airtight box	12002093	Option	1

s[21CLAD]sf 125

#	DESCRIPTION	PRODUCT CODE	INCLUDED OR OPTION	Q ^{TY}
1	Fireplace	N/A	Included	1
2	Cladding frontage	N/A	Included	1
3	Cladding side	N/A	Included	2
4	Cladding feet	14997881	Included	6
5	Back insulated wall	N/A	Included	1
6	s21CLAD support	13002022	Included	1
7	Guillotine fire screen	13012160	Option	1
8	Back panel	1123011X	Option	1
9	Log rack	1123090X	Option	1
10	Outside air kit	12002138	Option	1
11	Air damper 4"	12001027	Option	1
12	Airtight box	12002096	Option	1

2.1 LIST OF COMPONENTS



s[21CLAD]df 85

#	DESCRIPTION	PRODUCT CODE	INCLUDED OR OPTION	Q ^{TY}
1	Fireplace	N/A	Included	1
2	Cladding frontage	N/A	Included	2
3	Cladding side	N/A	Included	2
4	Cladding feet	14997881	Included	12
5	s21CLAD support	13002022	Included	1
6	Guillotine fire screen	13012157	Option	2
7	Log rack	1123090X	Option	1 2
8	Outside air kit	12002138	Option	1
9	Air damper 4"	12001027	Option	1
10	Airtight box	12002091	Option	2

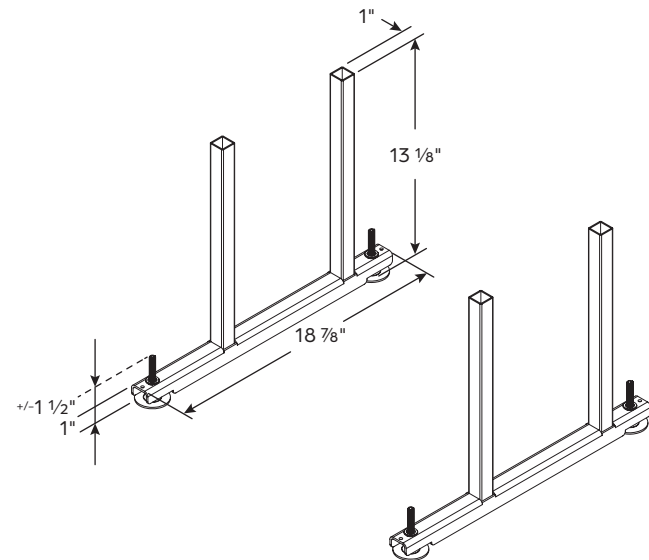
s[21CLAD]df 95

#	DESCRIPTION	PRODUCT CODE	INCLUDED OR OPTION	Q ^{TY}
1	Fireplace	N/A	Included	1
2	Cladding frontage	N/A	Included	2
3	Cladding side	N/A	Included	2
4	Cladding feet	14997881	Included	12
5	s21CLAD support	13002022	Included	1
6	Guillotine fire screen	13012158	Option	2
7	Log rack	1123090X	Option	1 2
8	Outside air kit	12002138	Option	1
9	Air damper 6"	12001002	Option	1
10	Airtight box	12002094	Option	2

s[21CLAD]df 125

#	DESCRIPTION	PRODUCT CODE	INCLUDED OR OPTION	Q ^{TY}
1	Fireplace	N/A	Included	1
2	Cladding frontage	N/A	Included	2
3	Cladding side	N/A	Included	2
4	Cladding feet	14997881	Included	12
5	s21CLAD support	13002022	Included	1
6	Guillotine fire screen	13012160	Option	2
7	Log rack	1123090X	Option	1 2
8	Outside air kit	12002138	Option	1
9	Air damper 6"	12001002	Option	1
10	Airtight box	12002096	Option	2

s[21CLAD] SUPPORT

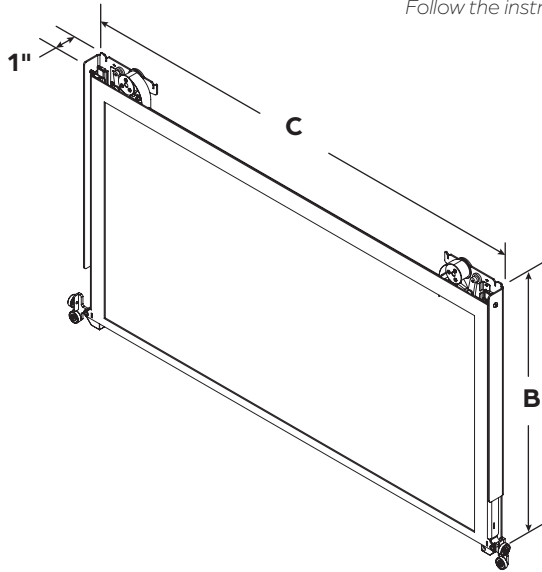


2.2 OPTIONAL KITS



GUILLOTINE FIRE SCREEN

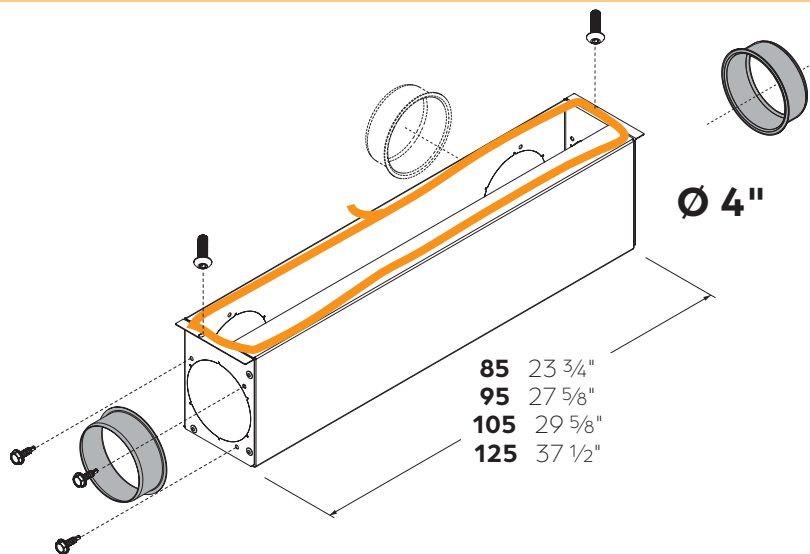
Follow the instructions supplied with the guillotine fire screen



MODEL	B	C
85	23 11/16"	30"
95	26 15/16"	33 7/8"
105	18 3/8"	37 13/16"
125	23 11/16"	45 11/16"

AIRTIGHT BOX

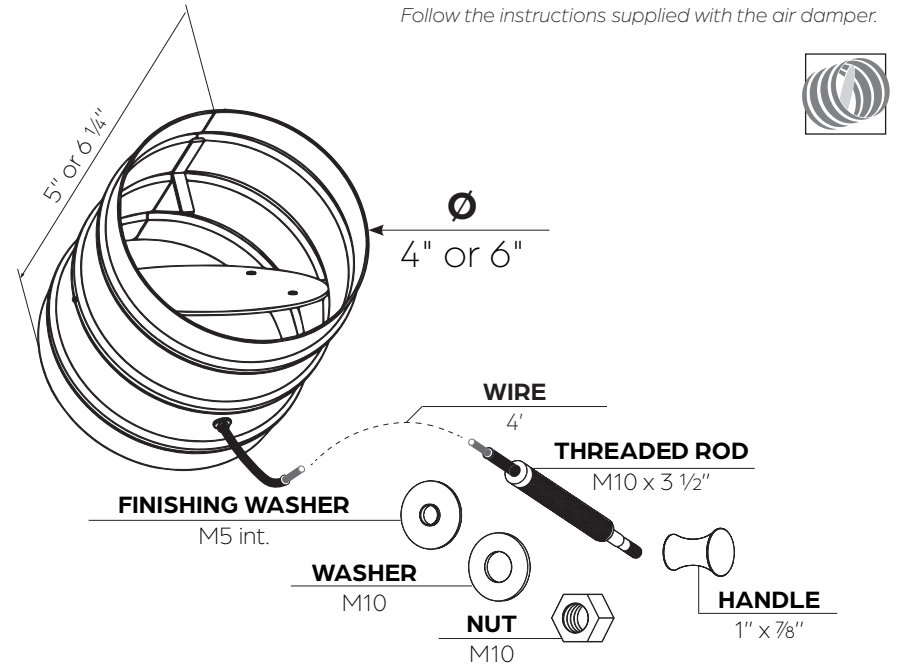
For outside air intake



AIR DAMPER

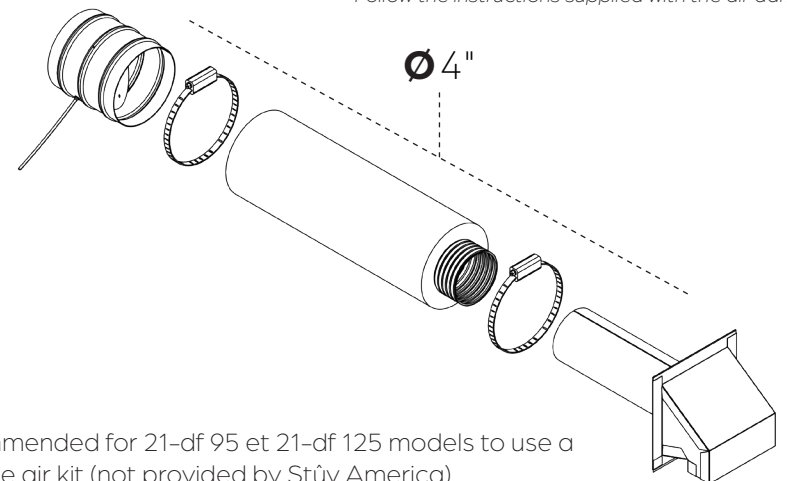
For outside air intake

Follow the instructions supplied with the air damper.



OUTSIDE AIR KIT

Follow the instructions supplied with the air damper.

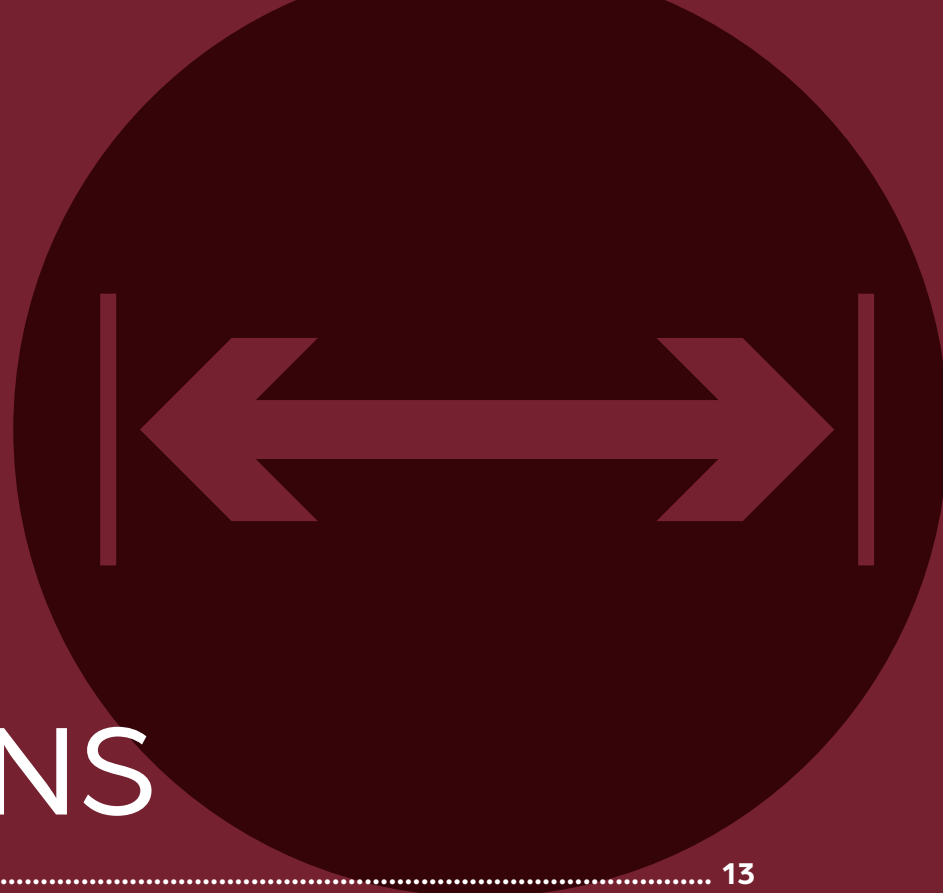


It is recommended for 21-df 95 et 21-df 125 models to use a Ø6" outside air kit (not provided by Stûv America)

3

DIMENSIONS

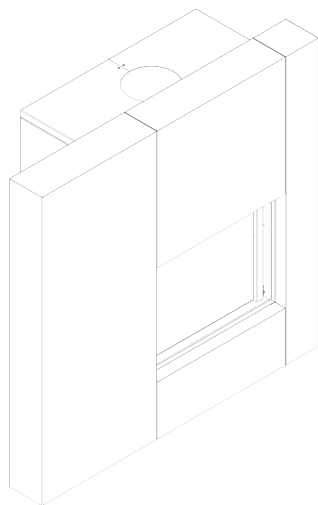
3.1	CONFIGURATIONS	13
3.2	DIMENSIONS	14
3.3	FLOOR PROTECTION	18
3.4	RADIANCE AND CLEARANCES	19
3.5	AIR SUPPLY	20



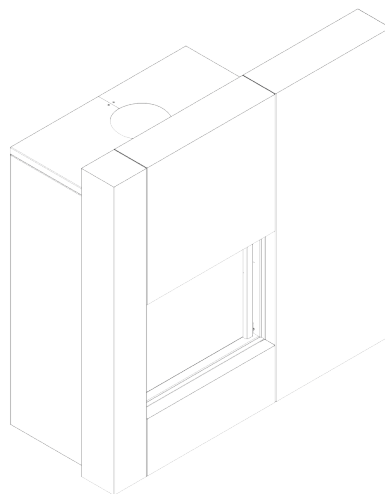
1.1 CONFIGURATIONS



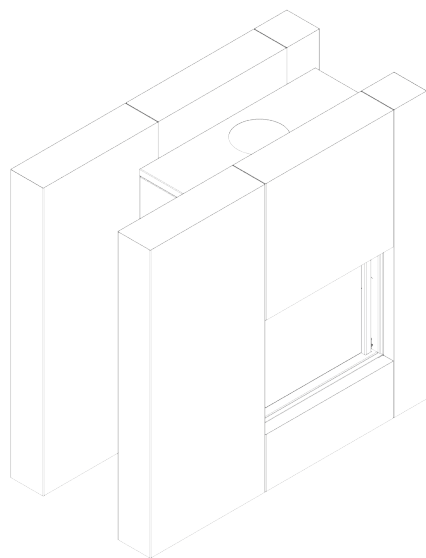
SF2 LEFT



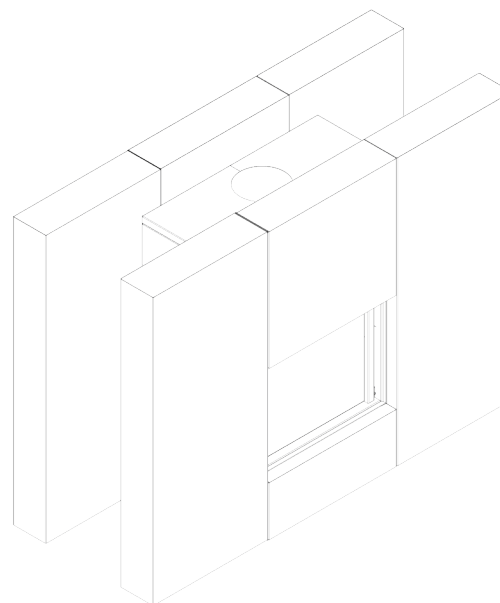
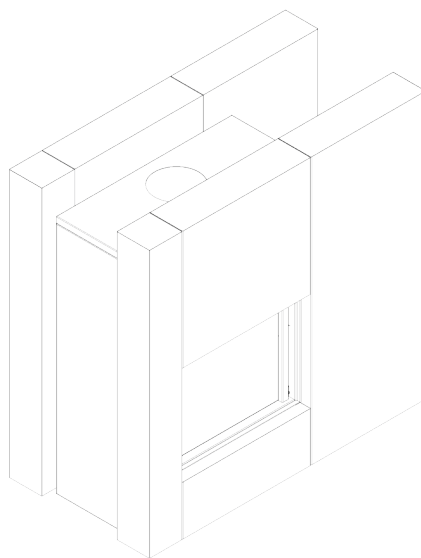
SF2 RIGHT



DF2



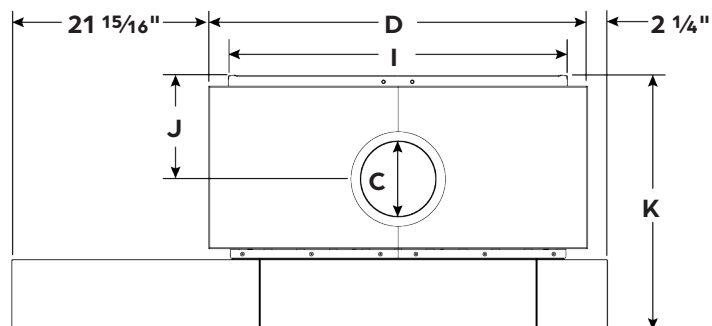
DF7



1.2 DIMENSIONS SF2 LEFT



TOP VIEW

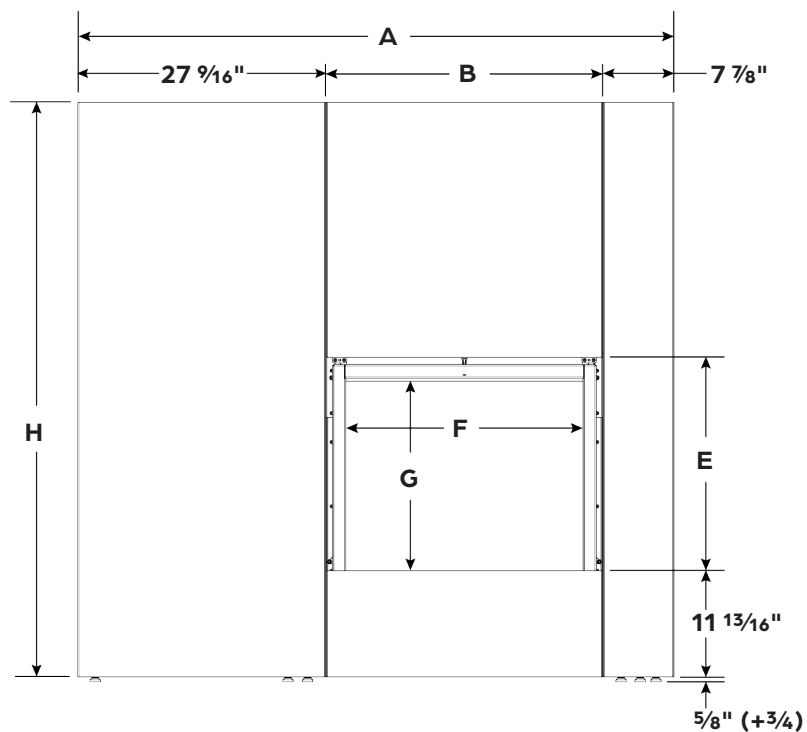


SF2	A	B	C	D	E	F	G	H
85	66 5/16"	30 7/8"	10 1/2"	42 3/16"	23 3/4"	26 1/2"	21 1/16"	63 7/8"
95	70 1/2"	34 13/16"	12 1/2"	46 1/4"	26 7/8"	30 3/8"	24 1/4"	70 1/4"
105	74 3/16"	37 3/8"	10 1/2"	50"	18 7/16"	34 1/4"	15 3/4"	53 1/4"
125	82 1/16"	46 5/8"	12 1/2"	57 15/16"	23 3/4"	42 1/8"	21 1/16"	63 7/8"

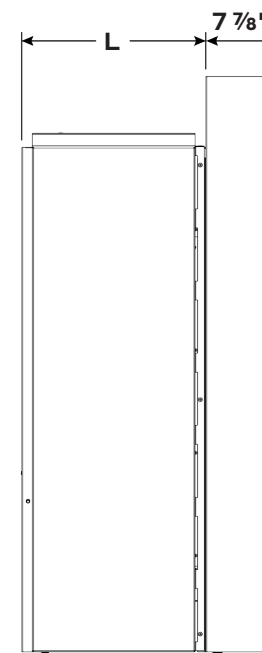
SF2	I	J	K	L	WEIGHT	CODE
85	37 11/16"	11 5/8"	28 3/8"	20 1/2"	785 lb	1521080X
95	41 5/8"	12 1/2"	30 3/8"	22 1/2"	950 lb	1521100X
105	45 9/16"	11 5/8"	26 11/16"	18 13/16"	790 lb	1521120X
125	53 7/16"	12 3/8"	29 3/8"	21 7/16"	980 lb	1521140X

The weights apply only to the assembled appliance. They do not include accessories, options, chimneys, and pallets.

FRONT VIEW



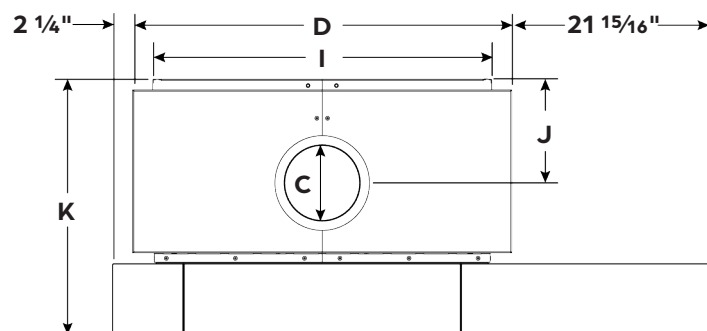
SIDE VIEW



1.2 DIMENSIONS SF2 RIGHT



TOP VIEW

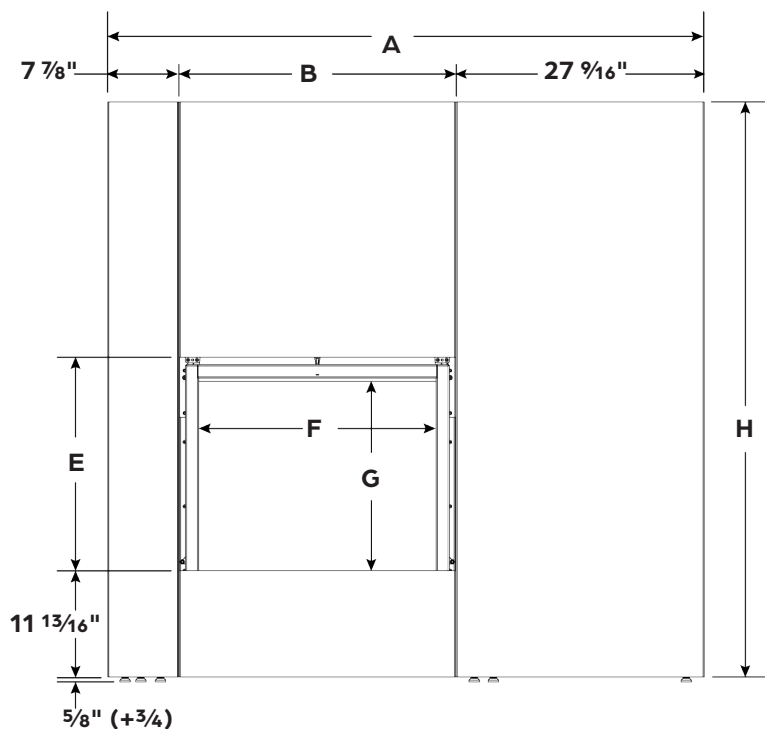


SF2	A	B	C	D	E	F	G	H
85	66 5/16"	30 7/8"	10 1/2"	42 3/16"	23 3/4"	26 1/2"	21 1/16"	63 7/8"
95	70 1/2"	34 13/16"	12 1/2"	46 1/4"	26 7/8"	30 3/8"	24 1/4"	70 1/4"
105	74 3/16"	37 3/8"	10 1/2"	50"	18 7/16"	34 1/4"	15 3/4"	53 1/4"
125	82 1/16"	46 5/8"	12 1/2"	57 15/16"	23 3/4"	42 1/8"	21 1/16"	63 7/8"

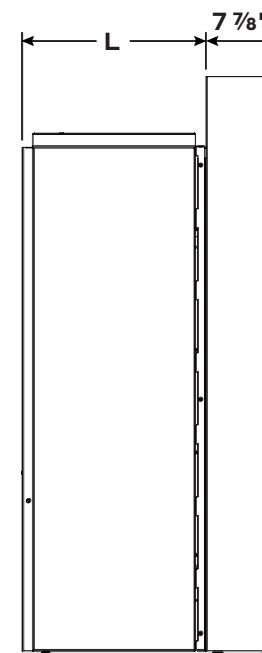
SF2	I	J	K	L	WEIGHT	CODE
85	37 11/16"	11 5/8"	28 3/8"	20 1/2"	785 lb	1521070X
95	41 5/8"	12 1/2"	30 3/8"	22 1/2"	950 lb	1521090X
105	45 9/16"	11 5/8"	26 11/16"	18 13/16"	790 lb	1521110X
125	53 7/16"	12 3/8"	29 3/8"	21 7/16"	980 lb	1521130X

The weights apply only to the assembled appliance. They do not include accessories, options, chimneys, and pallets.

FRONT VIEW



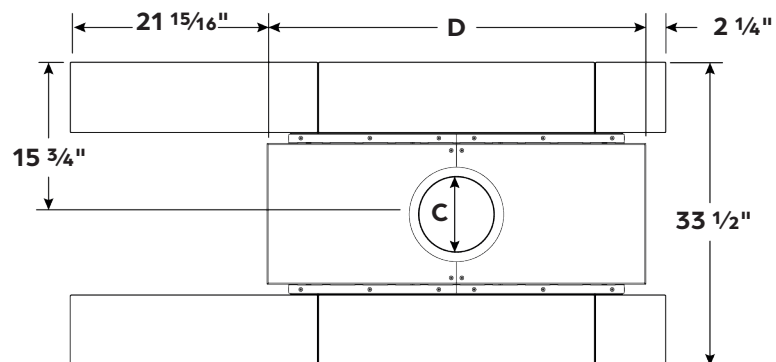
SIDE VIEW



1.2 DIMENSIONS DF2



TOP VIEW

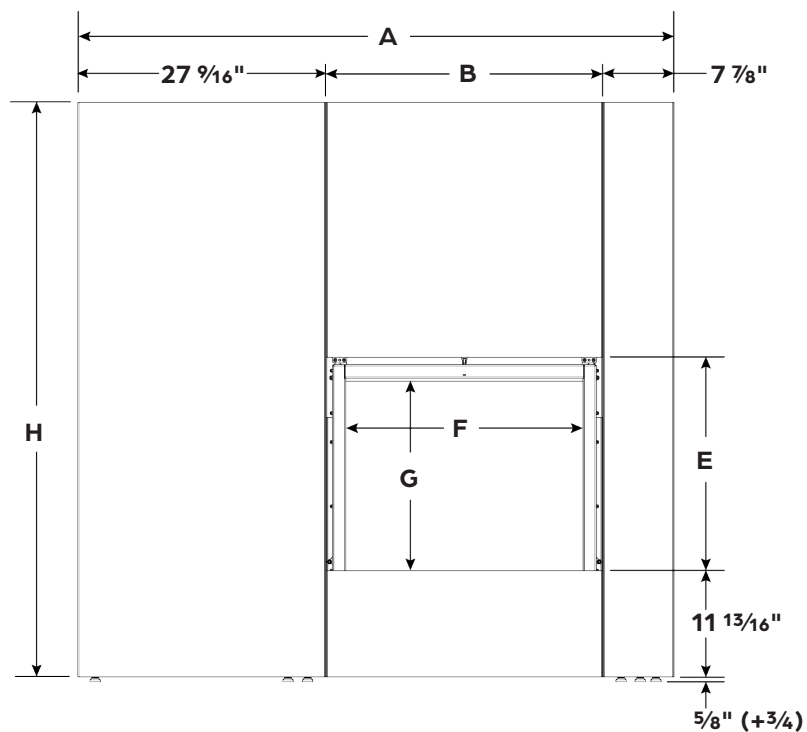


DF2	A	B	C	D	E
85	66 5/16"	30 7/8"	12 1/2"	42 3/16"	23 3/4"
95	70 1/2"	34 13/16"	14 1/2"	46 1/4"	26 7/8"
125	82 1/16"	46 5/8"	14 1/2"	57 15/16"	23 3/4"

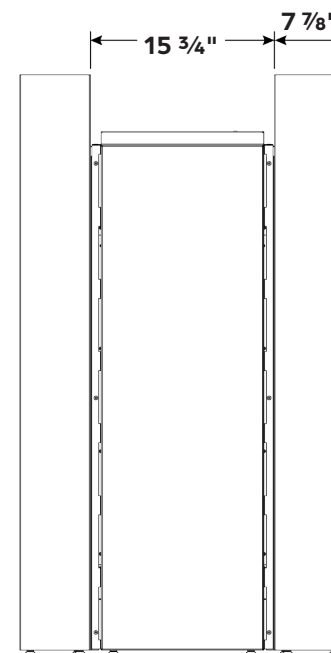
DF2	F	G	H	WEIGHT	CODE
85	26 1/2"	21 1/16"	63 7/8"	965 lb	1521150X
95	30 3/8"	24 1/4"	70 1/4"	1135 lb	1521160X
125	42 1/8"	21 1/16"	63 7/8"	1200 lb	1521170X

The weights apply only to the assembled appliance. They do not include accessories, options, chimneys, and pallets.

FRONT VIEW



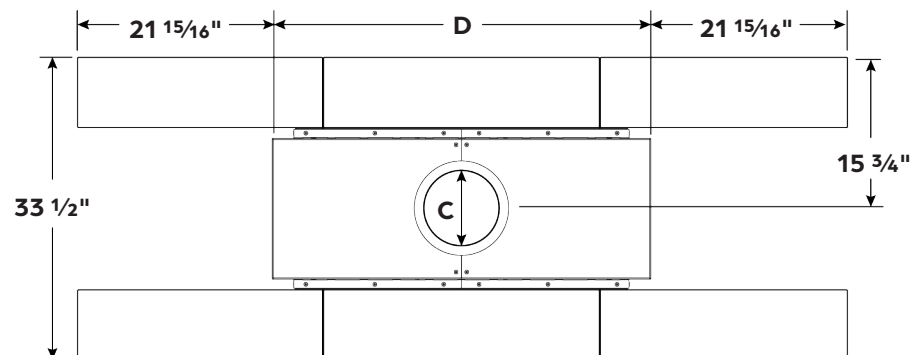
SIDE VIEW



.2 DIMENSIONS DF7



TOP VIEW

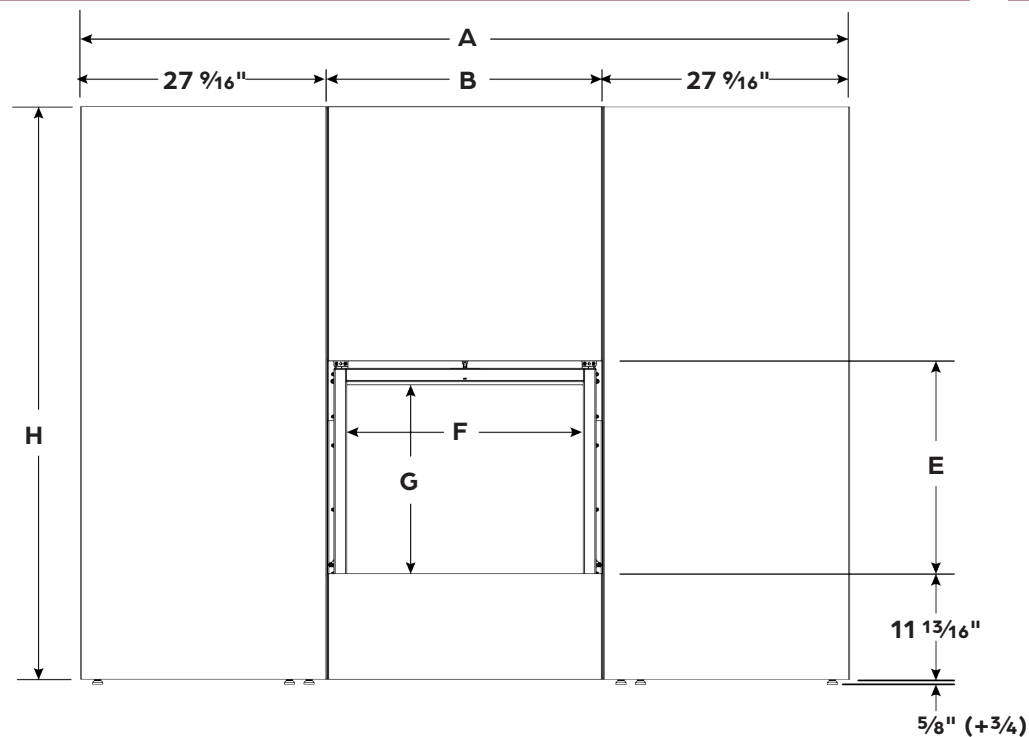


DF2	A	B	C	D	E
85	86"	30 7/8"	12 1/2"	42 3/16"	23 3/4"
95	89 15/16"	34 13/16"	14 1/2"	46 1/4"	26 7/8"
125	101 3/4"	46 5/8"	14 1/2"	57 15/16"	23 3/4"

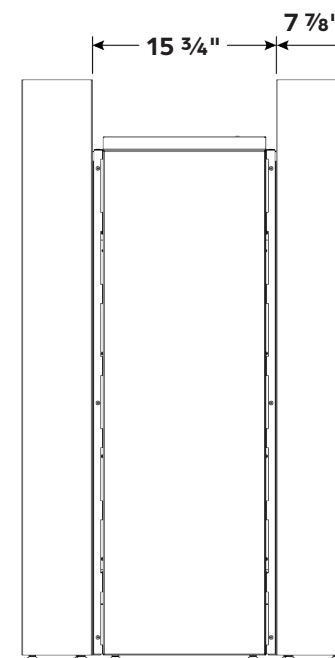
DF2	F	G	H	WEIGHT	CODE
85	26 1/2"	21 1/16"	63 7/8"	1060 lb	1521180X
95	30 3/8"	24 1/4"	70 1/4"	1240 lb	1521190X
125	42 1/8"	21 1/16"	63 7/8"	1295 lb	1521200X

The weights apply only to the assembled appliance. They do not include accessories, options, chimneys, and pallets.

FRONT VIEW



SIDE VIEW



1.3 FLOOR PROTECTION



In order to be compliant with building codes, floor protection is mandatory. The surface of the floor in front of the unit must be protected by **non combustible** floor protection. There is no required R Value.

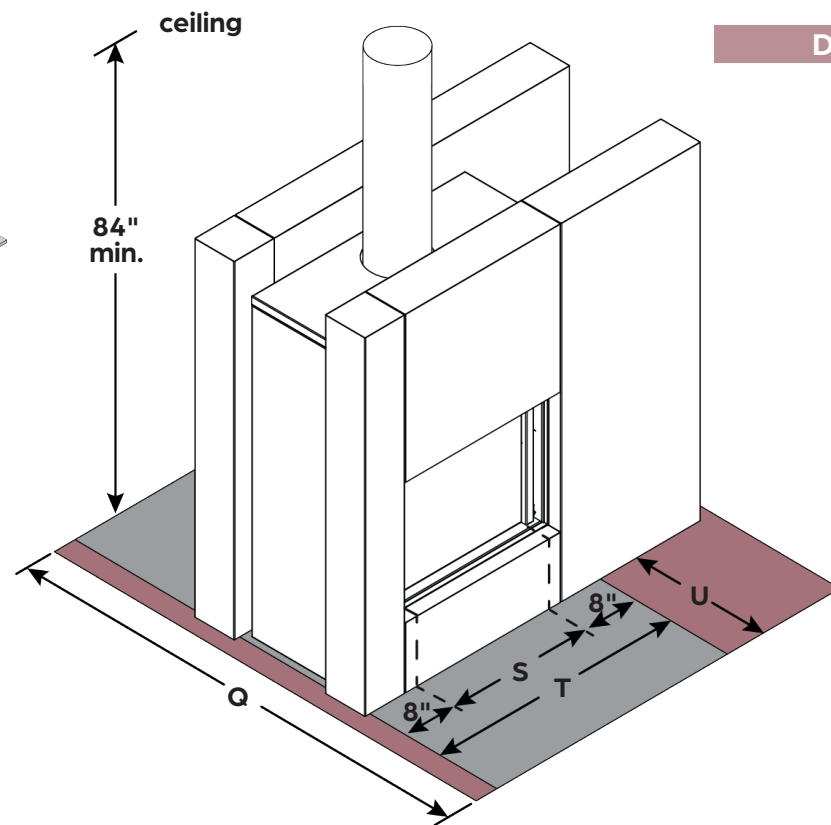
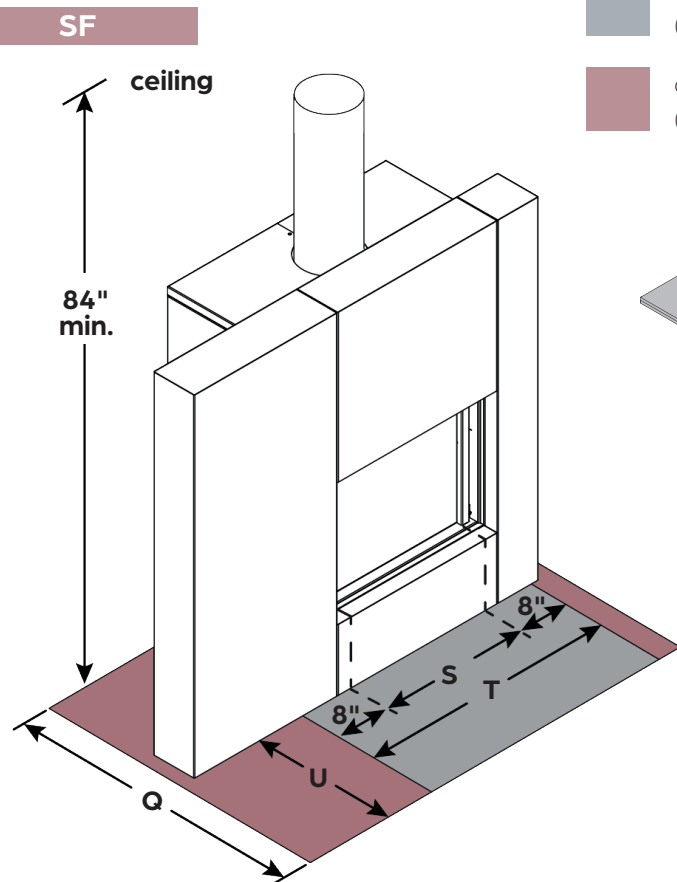
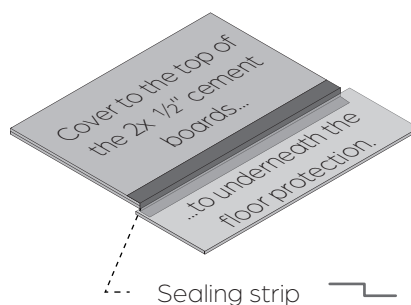
This protection must cover the width of the glass plus 8" on each side of the glass (see table (U & Q) according regulations per country.

A non combustible sealing strip must be placed through the whole length of the junction between the cement board and the finished floor to avoid ember projections.

MODEL	S	T	U (Canada)	U (USA)	Q (Canada)	Q (USA)
21-sf 85	26 1/2"	42 1/2"	13 1/4"	11 1/4"	40 3/4"	38 3/4"
21-sf 95	30 3/8"	46 3/8"			42 3/4"	40 3/4"
21-sf 105	34 1/4"	50 1/4"			38 13/16"	36 13/16"
21-sf 125	42 1/8"	58 1/8"			41 3/8"	39 3/8"
21-df 85	26 1/2"	42 1/2"			55 1/2"	51 1/2"
21-df 95	30 3/8"	48 3/8"				
21-df 125	42 1/8"	58 1/8"				

 minimum protection (mandatory)

 aesthetic protection (optional)



1.4 RADIANCE AND CLEARANCES

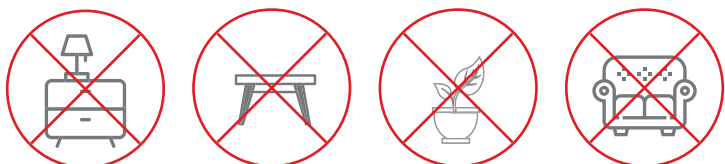


Glass radiation is significant. Any combustible object must be placed at a minimum distance of 48" over 90° from the glass face to avoid any risk.

The ceiling must have a minimum height of 84".

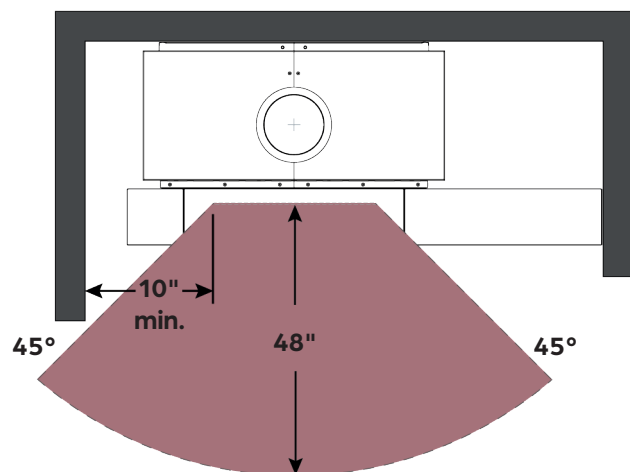
The side wall in front of the glass must be at least 10" away.

The sides and rear of the cladding may be in contact with combustible materials, such as wood logs and walls.

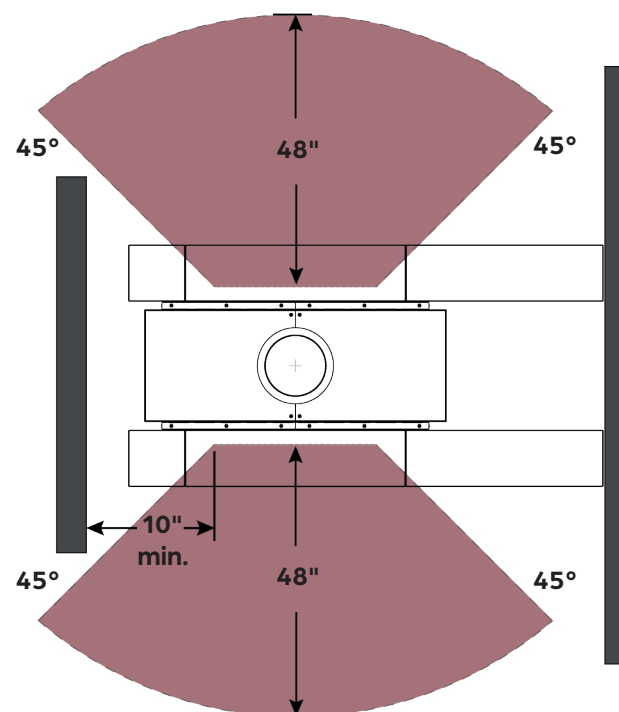


SF

Radiance



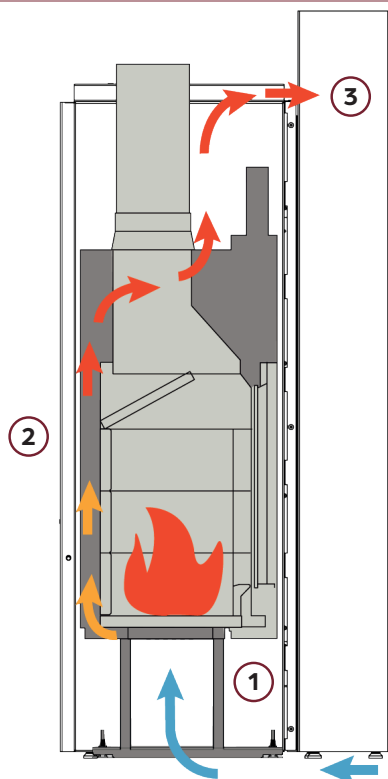
DF



1.5 AIR SUPPLY



CONVECTION AIR



The fireplace is supplied by two types of air: combustion air and convection air. Unlike the installation of insert s[21], no action is required for convection air. The s[21CLAD] offers an **integrated convection**.

1 Convection air inlet

The inlet air under the fireplace is used in s[21CLAD].

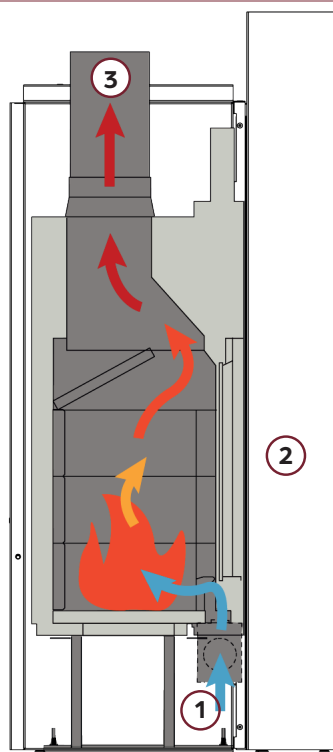
2 The air heats up

The air passes near the combustion chamber to heat up.

3 Hot air outlet

Heating efficiency is determined by convection air.

COMBUSTION AIR



1 Combustion air inlet

Outside air through the sealing box is recommended for better draft.

2 Fire supply

The fresh air inlet contributes to the strength and beauty of the flames.

3 Smoke outlet

Constant air exhaust prevents backdrafts.

Although it is **recommended** to connect the appliance to an outside air supply, this setup is mandatory in some places. See page 25 for more details.

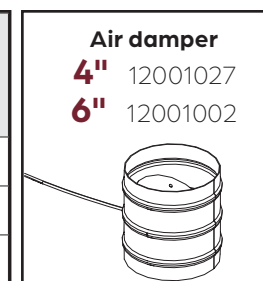
Whether it is connected to the stove or not, the duct leading to the outside air must:

- be protected outdoors by a grille whose clear passage section is at least 4" in diameter. Beware of water infiltration, snow accumulation and wind impacts, which can damage the system or hinder its operation.
- not be crushed.
- ideally be equipped with an air damper (optional).
- be at least 8' long, ideally insulated, and form a loop in the wall to prevent condensation (**in places with winter temperatures**).
- The airtight box and outside air connection kit are crucial accessories for high-efficiency homes.

If our standard $\varnothing$ 4" flexible duct is used, we recommend a maximum length of 12' with no more than 4 bends (see table to the right). If these recommendations are exceeded, it will be necessary to compensate with a larger diameter and/or a smoother duct.



Duct length	Max. number of 90° bends authorized
0 to 8'	4 bends
8' to 10'	2 bends
12' and +	1 bend



AIR DAMPER (OPTIONAL)

The air damper keeps the house from cooling down when the stove is not in use. It has a 100% open and a 100% closed position, which cannot affect combustion. It is recommended when installing in a highly energy-efficient house.

It should ideally be placed as close to the outer wall as possible. Validate that the air damper dimensions meet the installation's needs. The damper's control cable is 48" long and the damper is $\varnothing$ 4" or $\varnothing$ 6" in diameter.

4

INSTALLATION

4.1	UNPACKING	22
4.2	ADJUSTABLE STAND	24
4.3	OPTION : AIRTIGHT BOX.....	25
4.4	DOOR AND PULLEYS	27
4.5	LEVEL THE UNIT	29
4.6	CLADDING ASSEMBLY	30
4.7	INTERIOR OF COMBUSTION CHAMBER	33





! IMPORTANT

The paint is not cured. It is therefore fairly **fragile**, but it will harden after being heated several times. Handle the unit with care.

Step 1 The fireplace can be moved in three ways:

1. with a pallet jack, leaving the fireplace on the pallet
2. with a hand truck, tilting the fireplace onto its back (without pallet)
3. with the reversible handles designed for this purpose. This method is shown on the next page.

Step 2 Using a crowbar, remove the top of the shipping pallet.

Step 3 Then remove each side, leaving only the base.

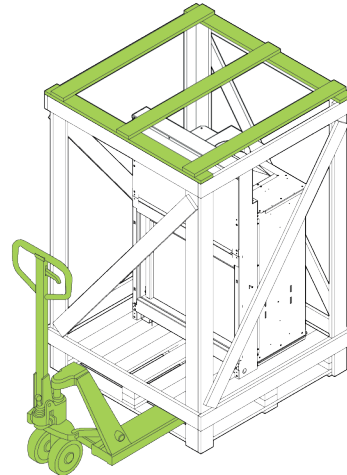
Step 4 Carefully unpack the protective plastic with a utility knife at the back of the fireplace to avoid damaging the front.

! NOTE

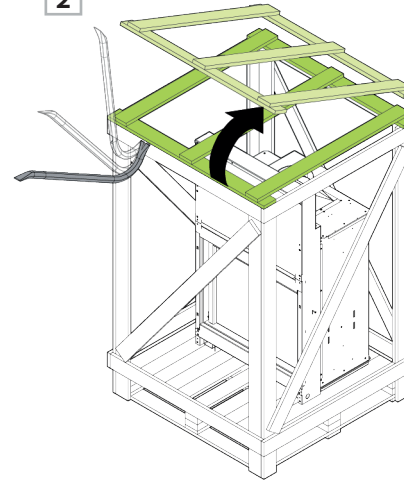
The counterweight of the glass are locked in a central position. Do not unlock the glass at this time to avoid problems later.

Step 5 Place the foam glass protector along the bottom of the fireplace opening to protect the bottom trim when removing the content of the combustion chamber.

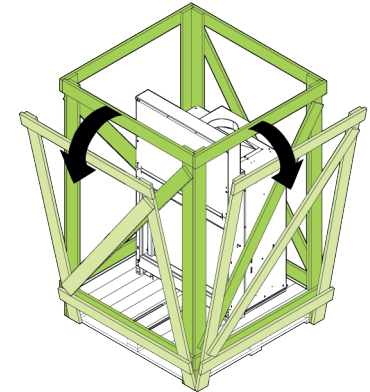
1



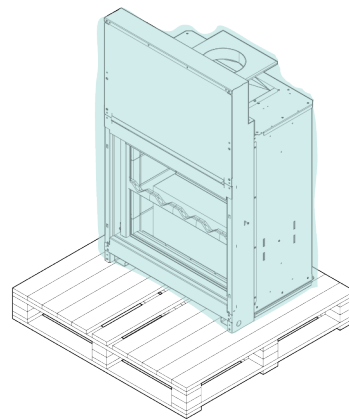
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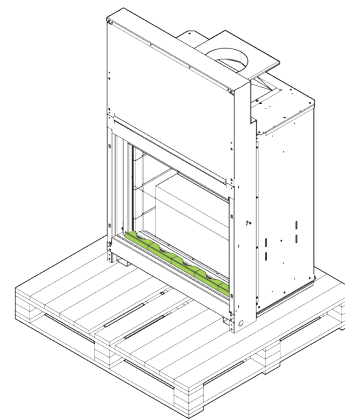
3



4



5



4.1 UNPACKING

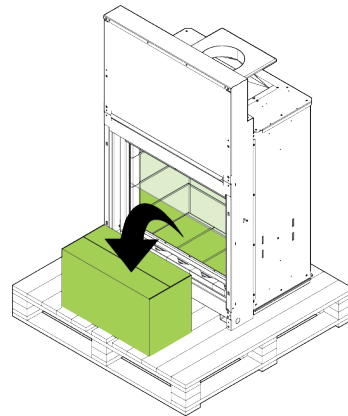


Step 6 Remove all contents from the combustion chamber **including the refractory bricks and vermiculite panels**. Check to ensure you have all the required components. Put the foam back on the glass.

CONTENT

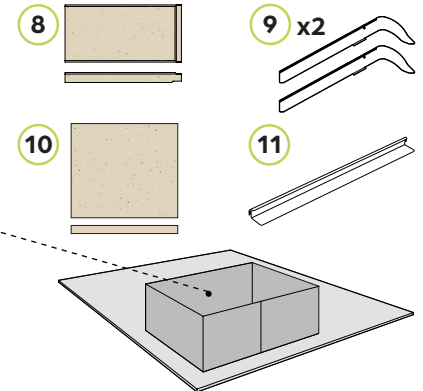
1. Installation manual
2. Spray paint for touch-ups
3. Hardware bag
4. Fireplace handle
5. Stûv glove
6. **4x** Refractory tightening clip*
7. **2x** Corner refractory bracket*
8. Refractory bricks
9. **2x** Baffle supports
10. Vermiculite panels
11. Baffle crossbar (**2x for df models**)

6



CHECK LIST

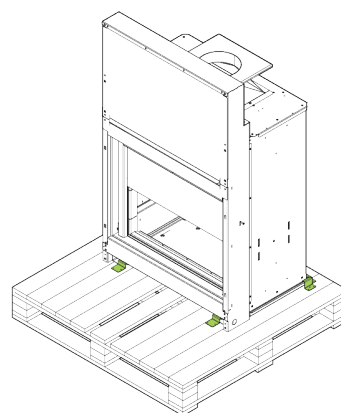
Is the equipment complete and in good condition?



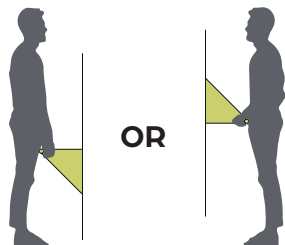
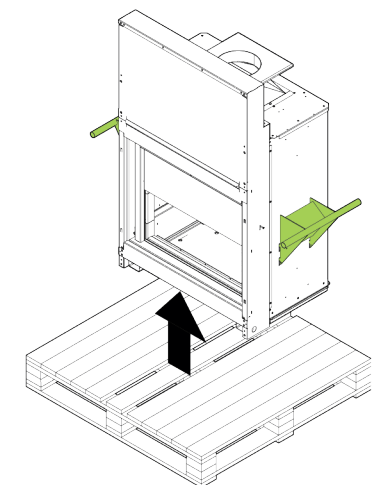
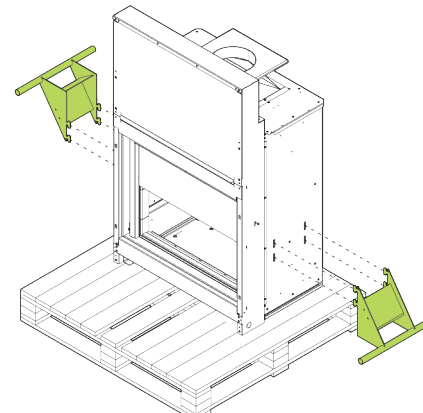
Step 7 Locate the four brackets holding the fireplace to the pallet and unscrew them.

Step 8 Insert the Stûv handles into the holes provided and remove the pallet from under the fireplace.

7



8



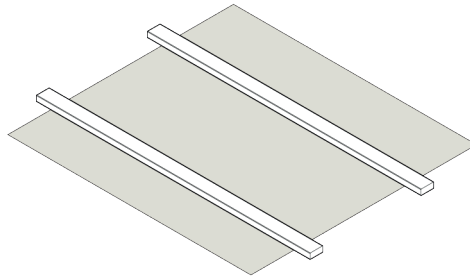
4.2 AJUSTABLE STAND



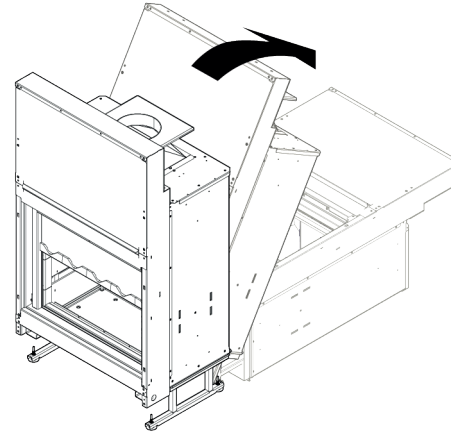
Step 9 Protect the floor with a moving blanket or cardboard and two wood planks.

Step 10 Lay the fireplace on the wood planks to make handling easier and protect the appliance and the floor.

9



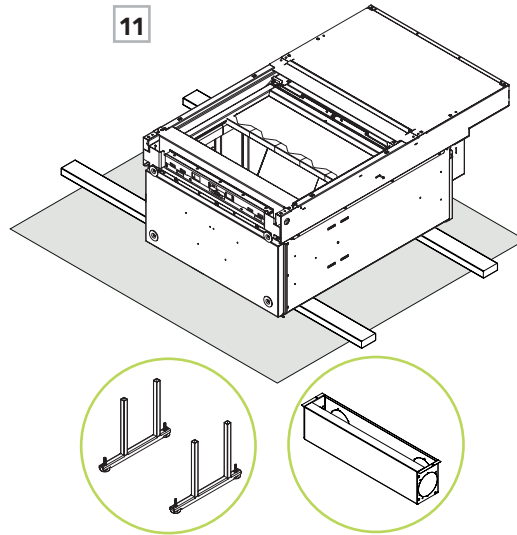
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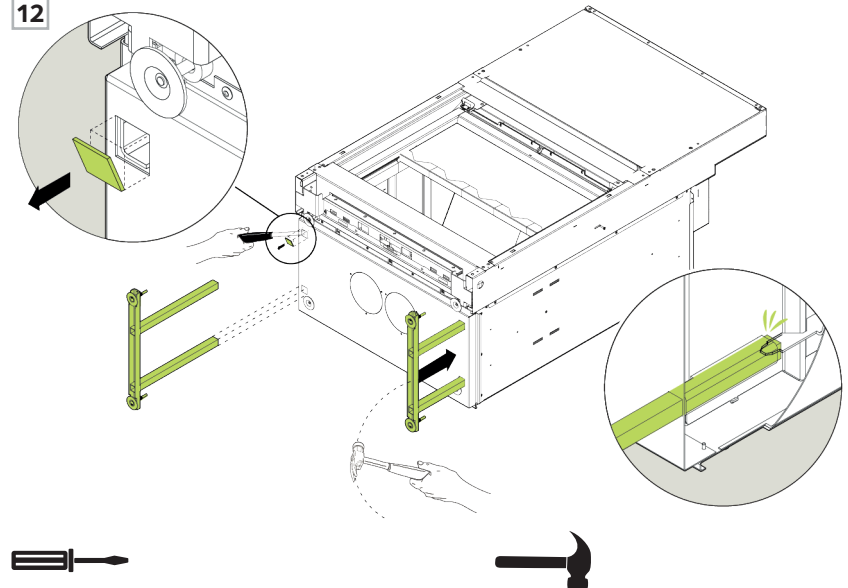
Step 11 Using a flat screwdriver, remove the four access squares provided for the adjustable legs.

Step 12 Using a hammer, insert the adjustable legs into the access squares previously opened.

11



12



4.3 OPTION : AIRTIGHT BOX



COMBUSTION AIR

Linear access to the front of the fireplace feeds the combustion air that will be expelled through the chimney.

Option 1 Without airtight box

Option 2 The airtight box with an external air inlet and air damper.



OPTION: AIR DAMPER

Refer to the damper manual if this option have been selected.



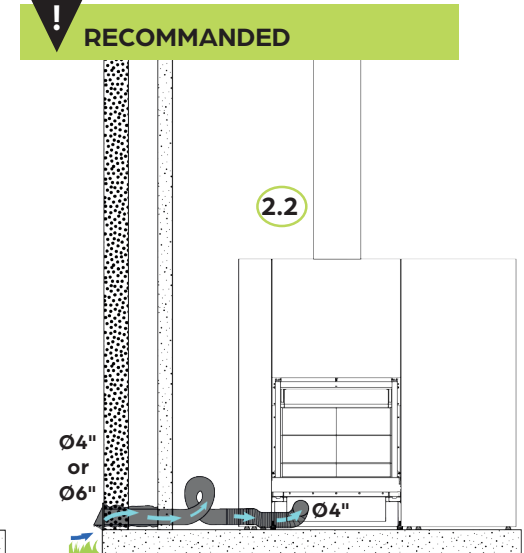
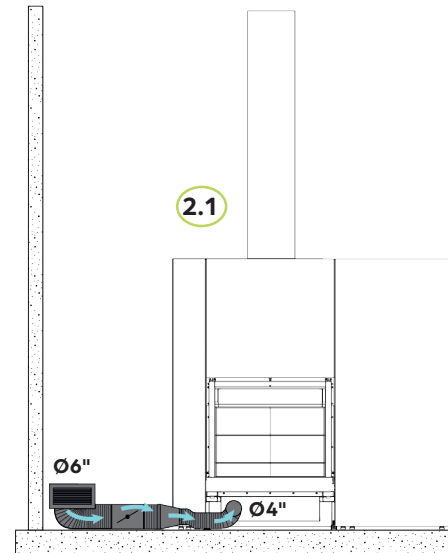
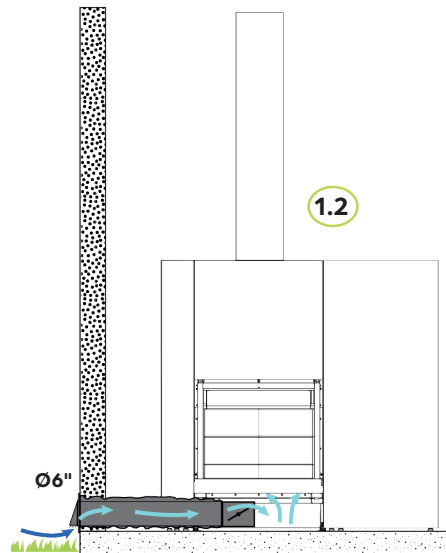
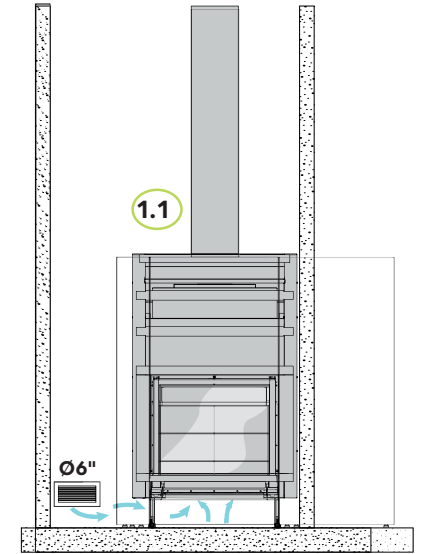
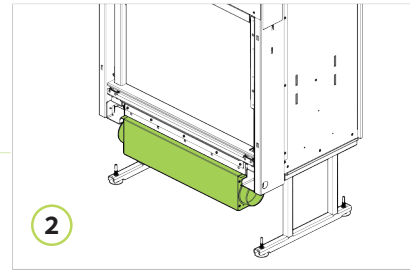
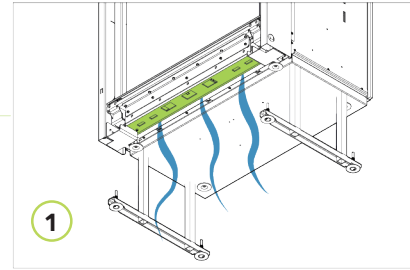
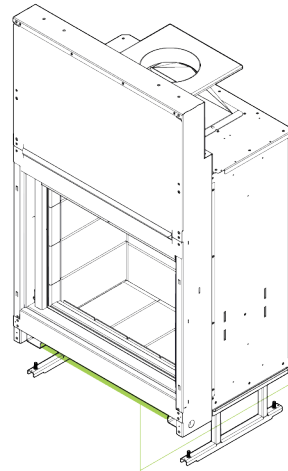
SUB-OPTIONS

1.1 A 12 sq. in. opening in the wall near the fireplace. The underside of the fireplace must allow air circulation and the room must not be airtight.

1.2 (not recommended) Use the outside air connection kit to supply air under the fireplace. The area under the fireplace needs to be insulated with non-combustible materials to prevent cold air from entering the room.

2.1 Use the outside air kit to connect the ambient air to the airtight box. Grille not included.

2.2 (recommended) Use the outside air connection kit to connect the outside air to the airtight box. It is recommended to make a loop in the wall with the duct to avoid condensation.



RECOMMENDED

4.3 OPTION: AIRTIGHT BOX

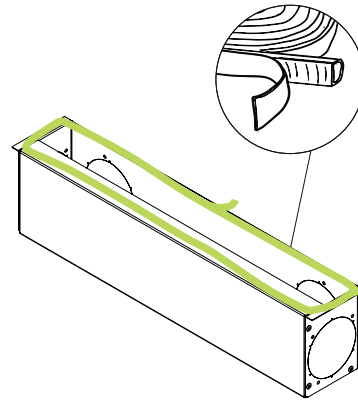


Step 13 Affix the self-adhesive gasket of the airtight box on the upper rim.

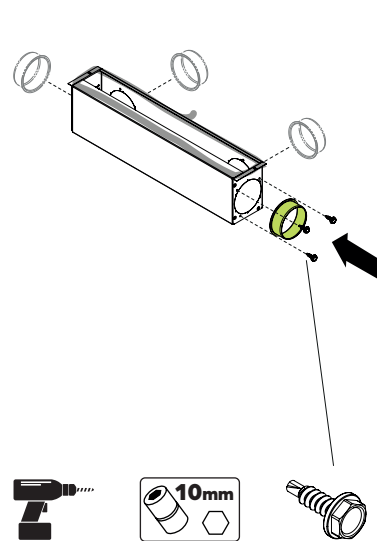
Step 14 Using the 3 self-drilling M6 screws provided, secure the short flange to the chosen side.

Step 15 Attach the duct to the short flange using a clamping collar.

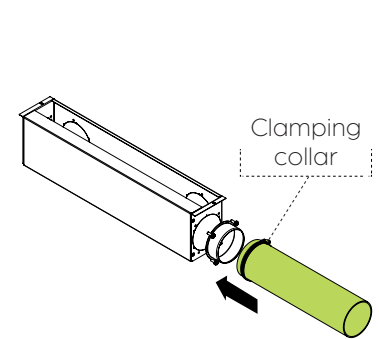
13



14



15

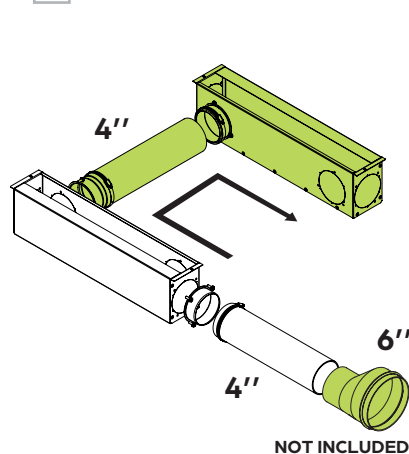


Step 16 For df model, connect the airtight boxes together at the end that is opposite to the external connection. It is recommended to have a **6" outside air inlet for 21-df 95 and 21-df 125 models**.

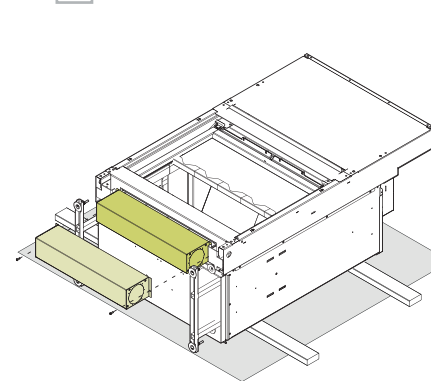
Step 17 Position the airtight box in its correct location under the fireplace.

Step 18 Attach the airtight box to the fireplace with two screws.

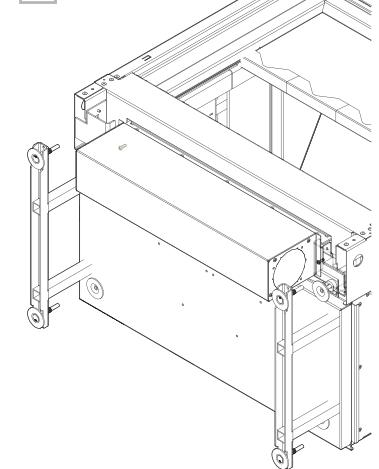
16



17



18





NOTE

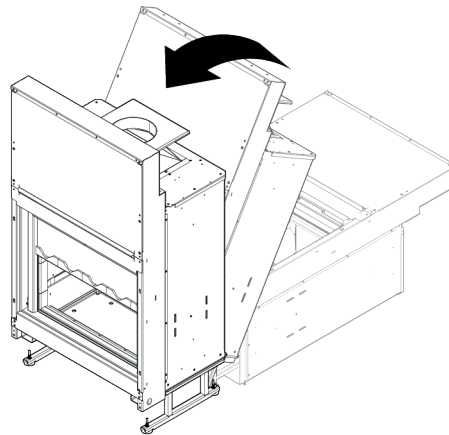
To avoid damage to the airtight box, no pressure should be put on it when the fireplace is raised.

Step 19 Raise the fireplace to a vertical position on the adjustable stand.

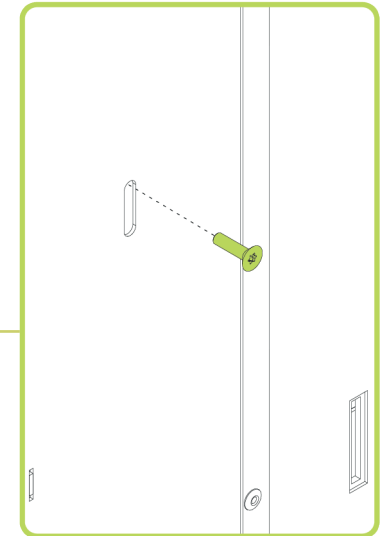
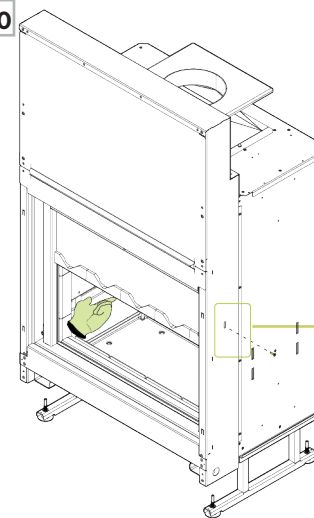
Step 20 Hold the door.

Remove the two screws holding the counterweight of the glass on each side before opening the door.

19



20



Step 21 Slide the glass up and down to make sure it is working properly. In case of problems, refer to the illustration below to replace the pulley cable back into its place.

Step 22 Remove the screws that hold the front cover in place and remove the cover by sliding it down and slightly out at the bottom.

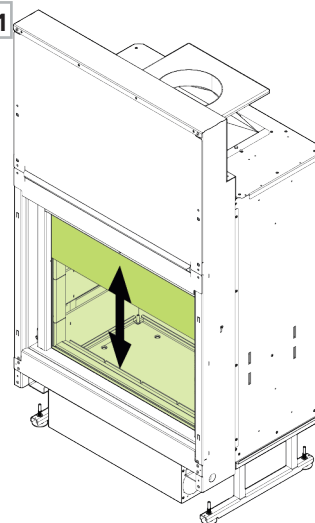


OPTION: GUILLOTINE FIRE SCREEN

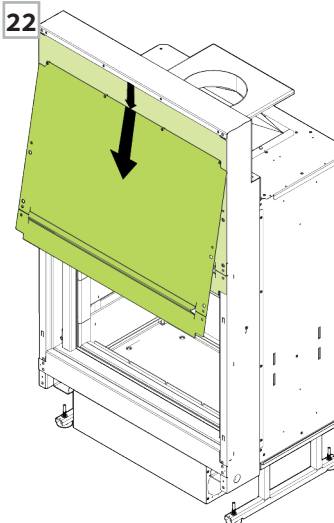
Step 23 If the guillotine fire screen option has been selected, the installation will be eased by removing the front cover. Follow steps in the manual provided with the option.



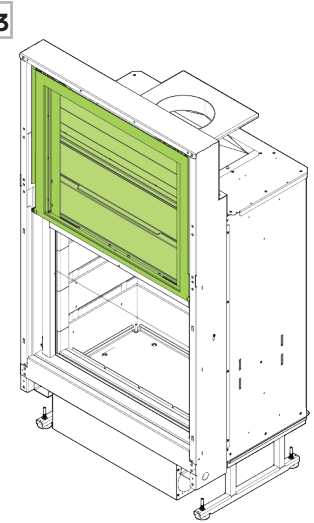
21



22



23



OR



4.4 DOOR AND PULLEYS



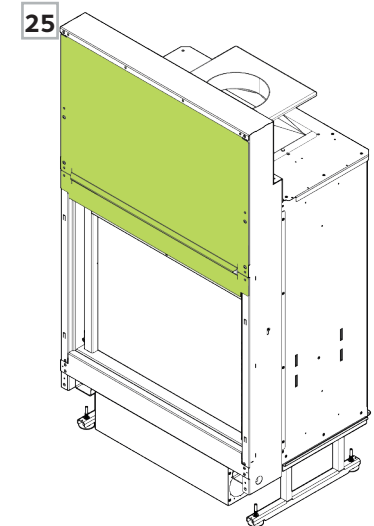
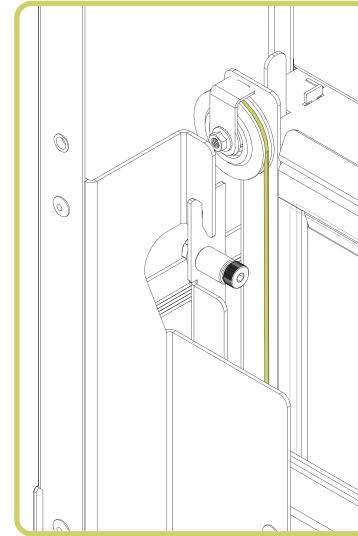
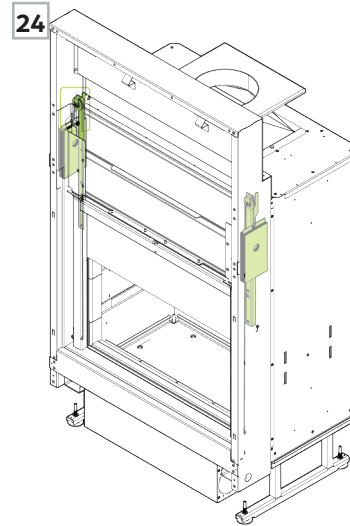
! IMPORTANT

This step will be hard to complete after the cladding assembly. Make sure the cable is well placed **now**

Step 24 Visually inspect the pulley cable to validate it is resting onto the recess of the pulley on both sides (left/right) of the fireplace. This ensures ease of movement of the glass.

Step 25 If it is displaced, replace it onto the recess of the pulley.

Replace the front cover once inspection is complete.

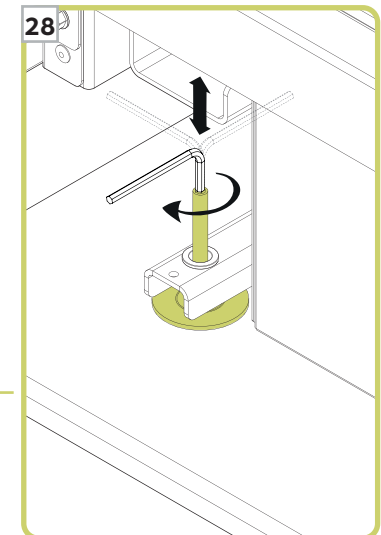
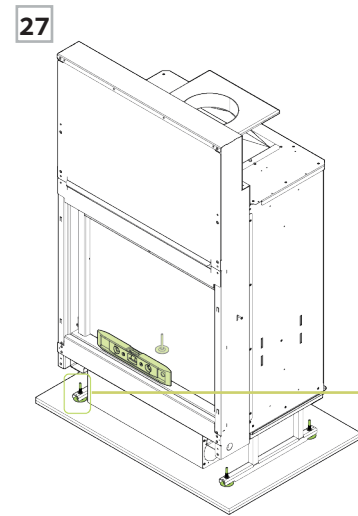
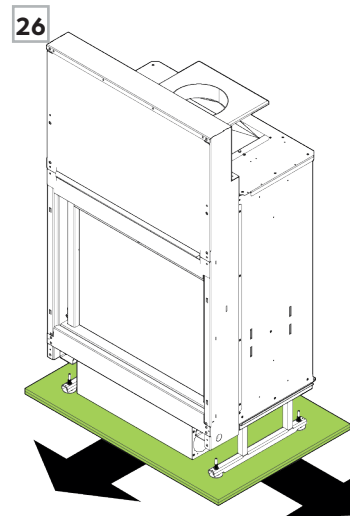


Step 26 Choose the final appliance location and install two cement boards on the floor where the fireplace will be installed.

Position the fireplace on the cement at its final location.

Step 27 Using a level, make the adjustment to level the unit.

Step 28 The height adjustment is made with a 5 mm Allen key. Turning clockwise raises the fireplace.



4.5 LEVEL THE UNIT



TRANSPORTABLE BUILDING

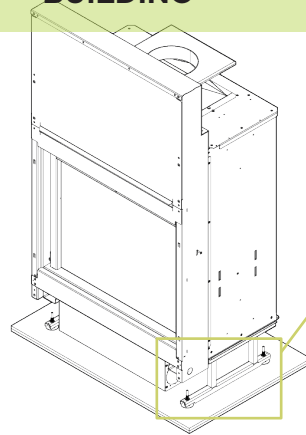
It is mandatory to permanently secure the appliance to its final location through the adjustable stand or the support brackets if this fireplace is installed in a transportable building.

Step 29 For installation in a transportable building, use long wood screws to secure the appliance through to the subfloor. Pre-drill the legs and fasten them.

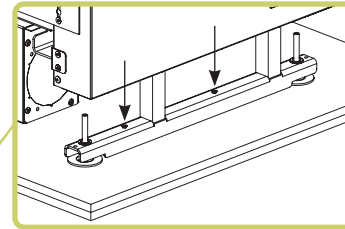
Step 30 Fasten the anchor plate (not included) and a first chimney section on top of the smoke outlet. Use self-drilling screws of your choice (not included).



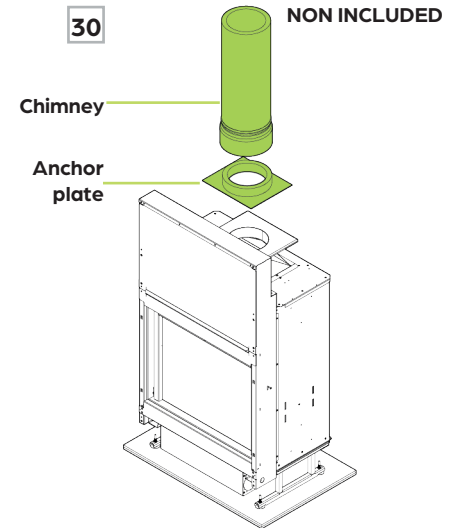
TRANSPORTABLE BUILDING



29



30

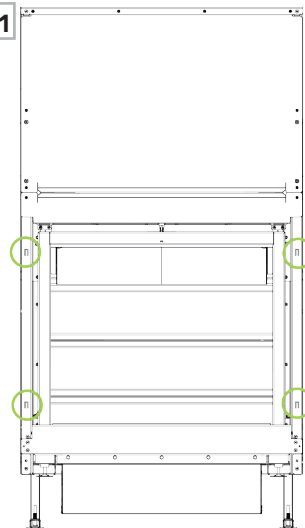


Step 31 Locate all four precut slots on the front of the unit around the hearth.

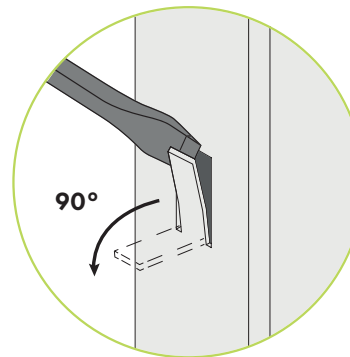
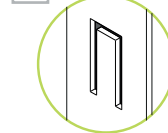
Step 32 With the help of a flat screwdriver bend them to a 90° angle.

Step 33 Then using a hammer and the provided folding tool, form 4 hooks with the tabs. Make sure that the vertical part of the hook is parallel to the fireplace facing.

31

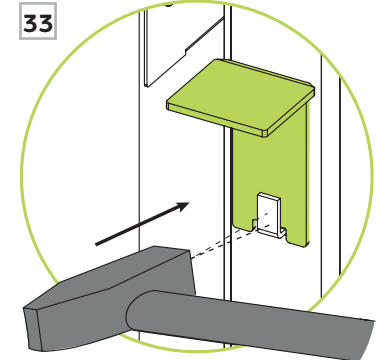


32

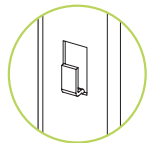


BEFORE

33



AFTER



4.6 CLADDING ASSEMBLY



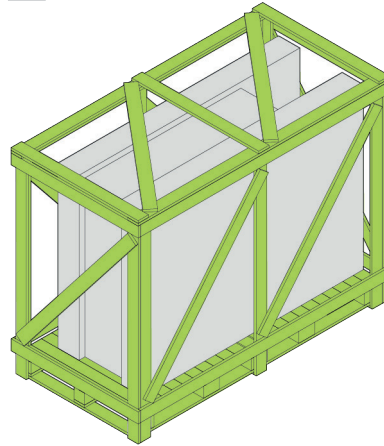
The next steps explain how to unpack the cladding.

Step 34 Allow sufficient space around the packaging.

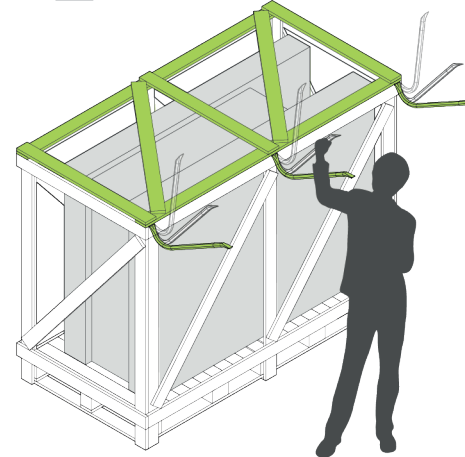
Step 35 Separate the top panel with a crowbar on one side only.

Step 36 Using a rotating motion, remove the top panel while holding the sides firmly.

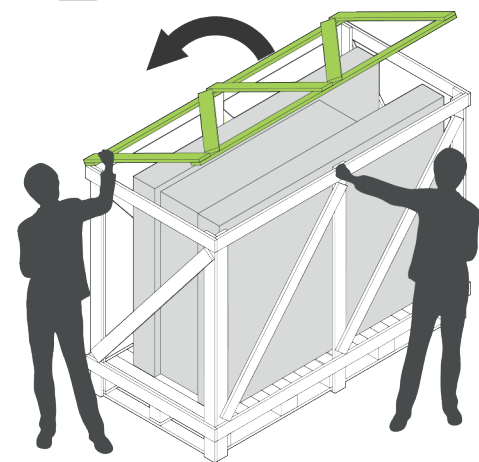
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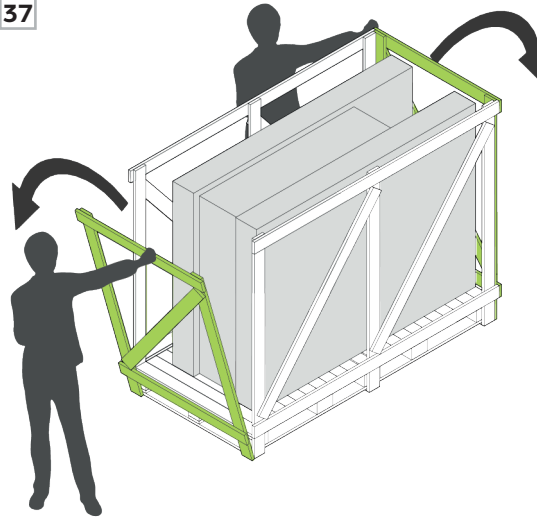
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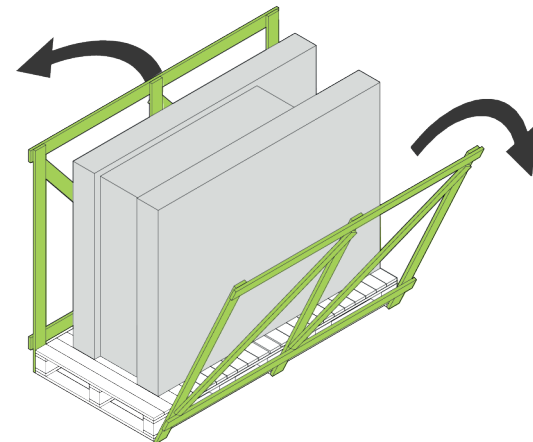
36



37



38



IMPORTANT

The cladding paint is fragile.

- Be careful not to scratch the cladding with the pallet nails.
- Use appropriate gloves to handle the cladding.
- Remove all accessories that could scratch the paint (belt, ring, tools...).

Step 37 Rotate and remove the small side panels while holding the large panels in place.

Step 38 Rotate and remove the large side panels.

4.6 CLADDING ASSEMBLY



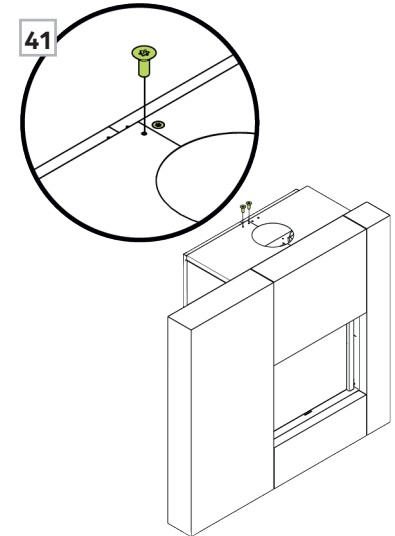
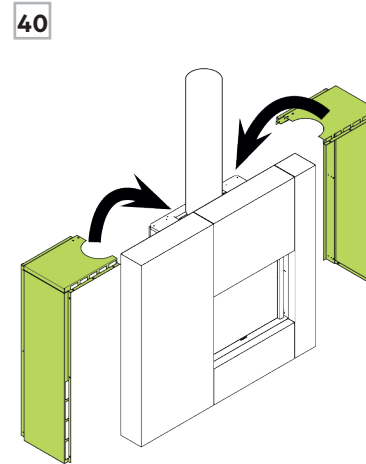
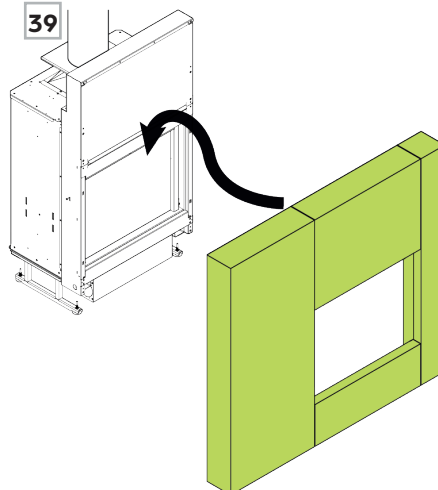
FOR SF MODELS ONLY

Next page for df models

Step 39 Position the front panel by sliding the cladding into the previously bent hooks.

Step 40 Fit the two sides of the facing together to align the screw holes.

Step 41 Start assembly with the two center screws at the rear. (chimney removed for visual purposes)

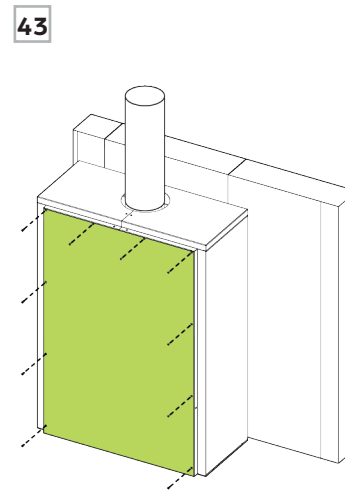
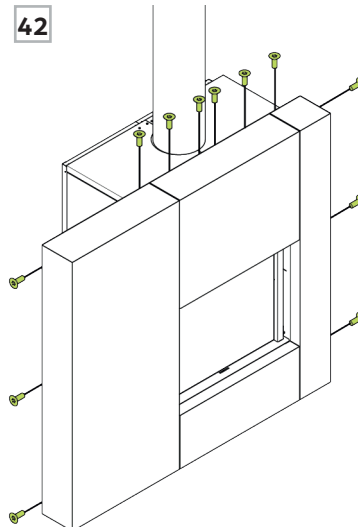


HAND SCREWDRIVER ONLY

The screws and the inserts are fragile. Do not use the drill to avoid damaging them.

Step 42 Secure the facing with screws on the top and both sides.

Step 43 If the rear panel option was selected, install it with the supplied screws.



4.6 CLADDING ASSEMBLY



FOR DF MODELS ONLY

Previous page for sf models

Step 44 Place both front panel by sliding the cladding into the previously bent hooks.

Step 45 Fit the two sides of the facing together to align the screw holes.

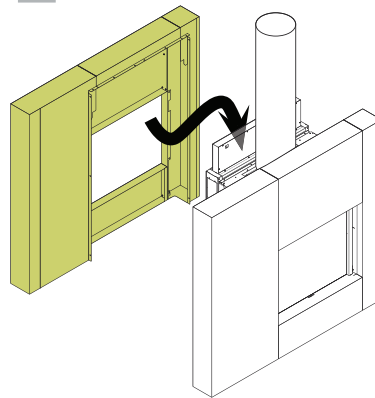
Step 46 Secure the facing with screws on the top and both sides.



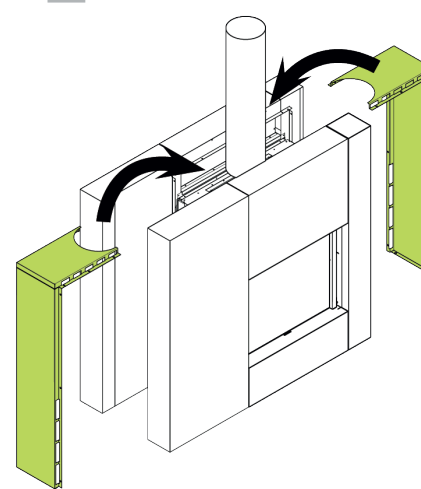
HAND SCREWDRIVER ONLY

The screws and the inserts are fragile. Do not use the drill to avoid damaging them.

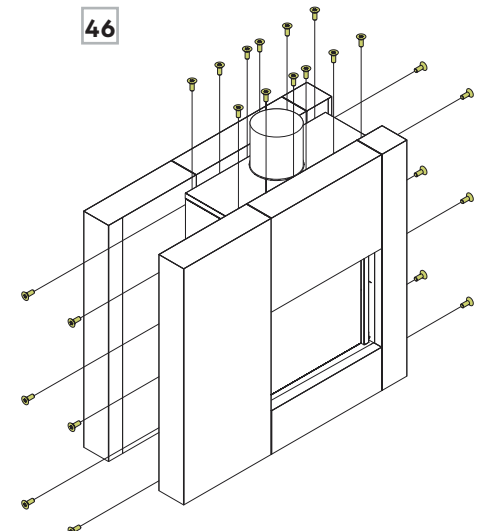
44



45



46

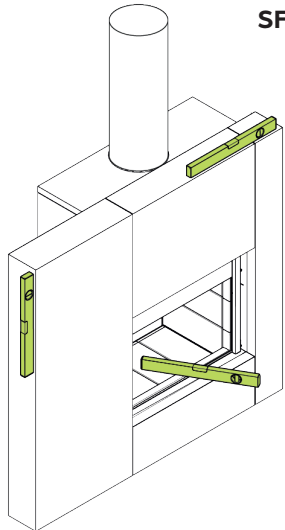


FOR ALL MODELS

Step 47 The cladding must be leveled, just as the fireplace was. Place levels at several locations on the facing (top, sides, and cover)

Step 48 Use an open-end wrench to turn the leveling feet to level the cladding. For DF models, do both sides of the cladding.

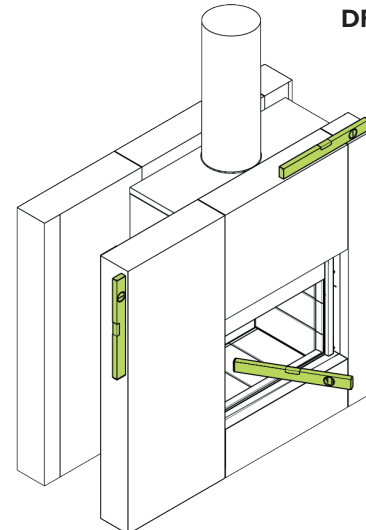
47



SF



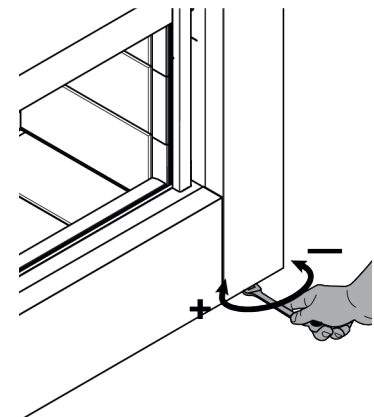
47



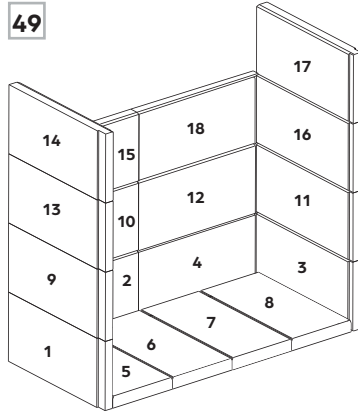
DF



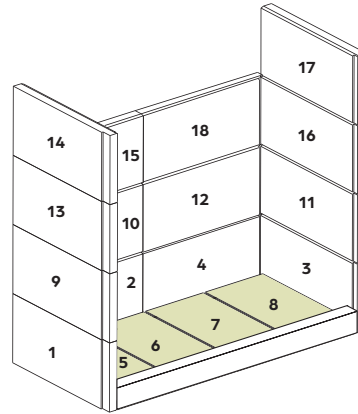
48



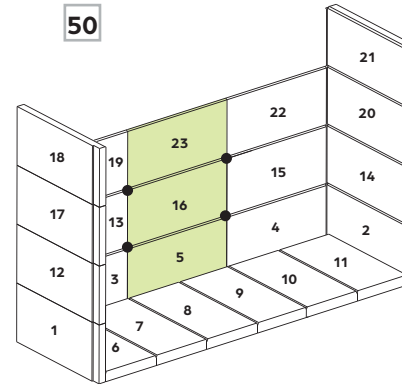
4.7 INTERIOR OF COMBUSTION CHAMBER



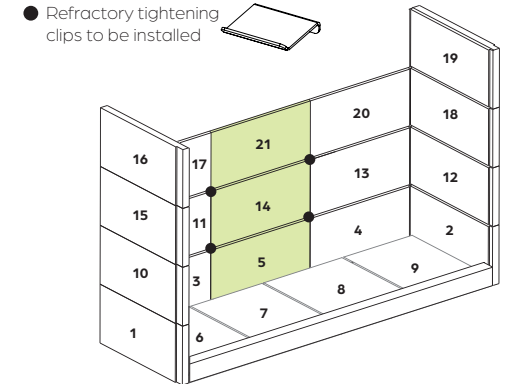
21-sf 85
 □ 50101010 **x18**
 (169 x 344mm)



21-sf 95
 □ 50101011 **x14**
 (194 x 394 mm)
 ■ 50102135 **x4**
 (190 x 308 mm)



21-sf 105 ▼
 □ 50101008 **x20**
 (144 x 294 mm)
 ■ 50101001 **x3**
 (144 x 304 mm)



● Refractory tightening clips to be installed

21-sf 125 ▼
 □ 50101002 (179 x 367 mm) **x14**
 □ 50102136 (283 x 265mm) **x4**
 ■ 50101003 (179 x 354 mm) **x3**



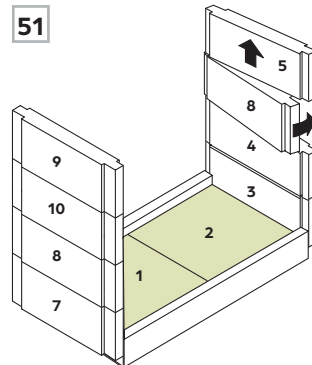
NOTE

For **21-sf 105** and **21-sf 125** only, if the refractory bricks on the back seem unstable follow the steps on the next page for installation of the tightening refractory brackets.

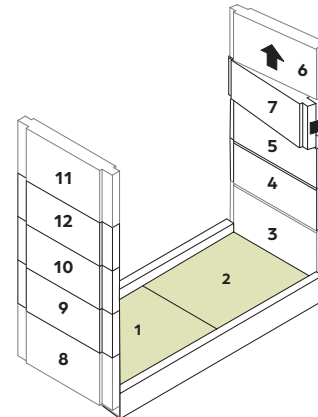
Step 49 Follow the steps on the **next page** for the order of installation of the refractory stones and vermiculites. The numbers written on the bricks are in order of instalaltion.

Step 50 Identify the model to be installed and pay attention to the different shape stones.

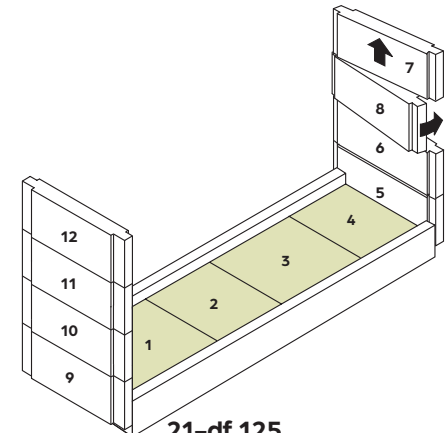
Step 51 Follow the order indicated by the arrows when installing the top refractory bricks.



21-df 85
 □ 50101009 **x8**
 (169 x 439 mm)
 ■ 14021031 **x2**
 (330 x 276 mm)



21-sf 95
 □ 50101007 (144 x 439 mm) **x6**
 □ 50101009 (169 x 439mm) **x4**
 ■ 14021046 (384 x 276 mm) **x2**



21-df 125
 □ 50101009 **x8**
 (169 x 439 mm)
 ■ 14021045 **x4**
 (267 x 276 mm)



NOTE

Refractory brackets and tightening clips are only provided for the **21-sf 105 and 21-sf 125** models. These should only be installed if the back refractory bricks are not tight enough.

Step 52 Raise the glass to access the inside of the combustion chamber in order to install refractory bricks 1 and 2.

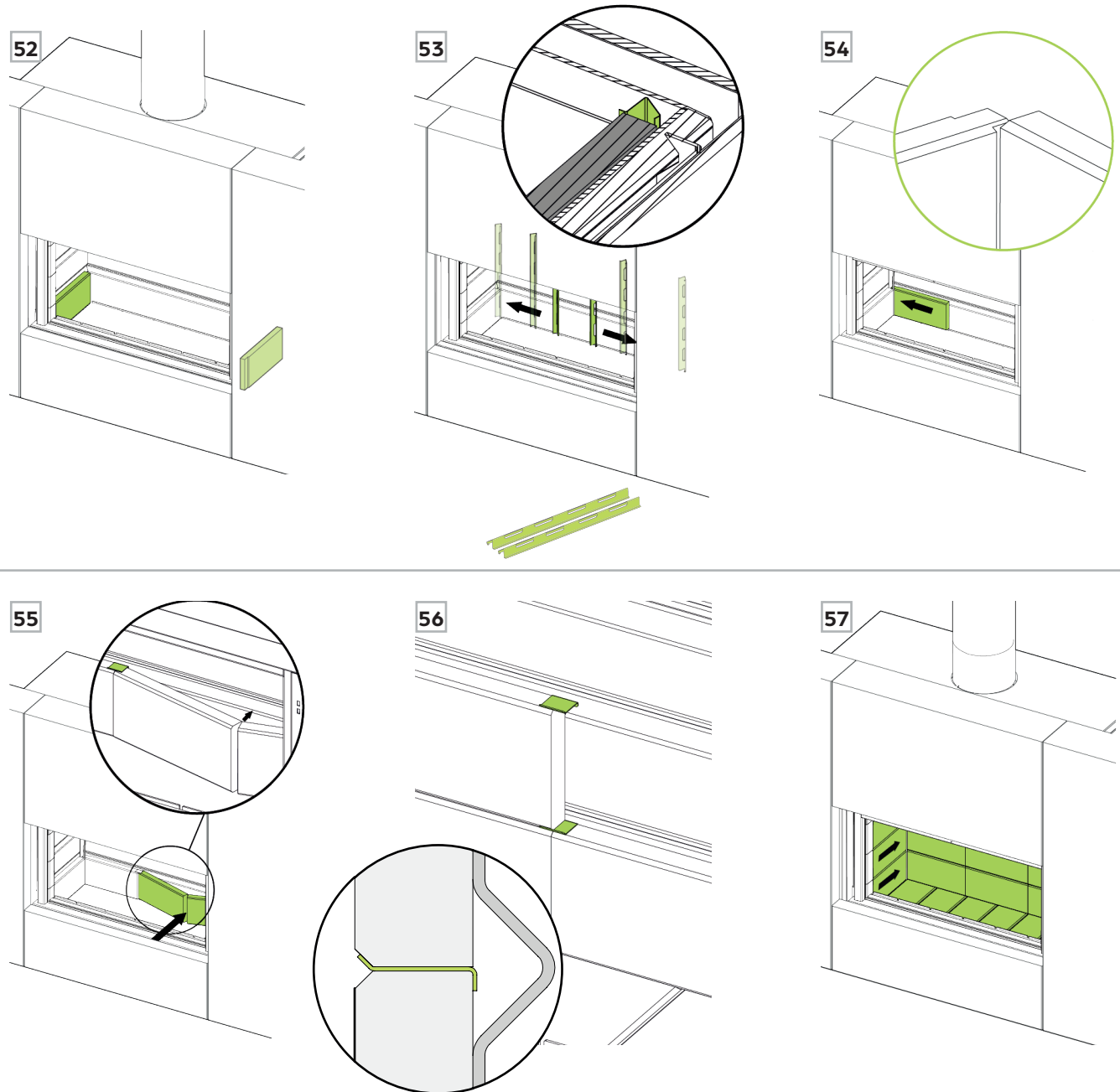
Step 53 Position the corner refractory brackets behind refractory bricks 1 and 2 in the direction shown. The brackets must be placed **symmetrically**.

Step 54 Place the refractory stone 3 making sure that the small notch is in the front.

Step 55 Press bricks 4 and 5 together to place them to their position.

Step 56 Continue placing the bricks in order. Check the previous page for the black dots, tightening refractory clips must be installed at these places.

Step 57 Once the bottom bricks are in place, push the side bricks to the back to properly secure the bricks and clips.





NOTE

For **sf** models only.

See next page for **df** models

Step 58 Insert the pointy end of the baffle support into the notch located on the inside of the fireplace near the door. The small lip must be towards the inside of the fireplace.

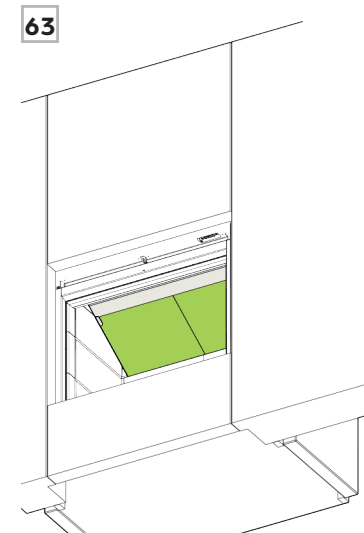
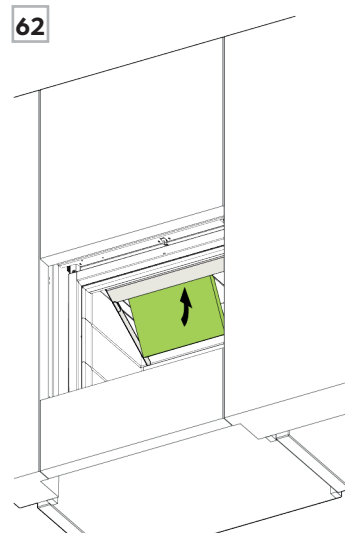
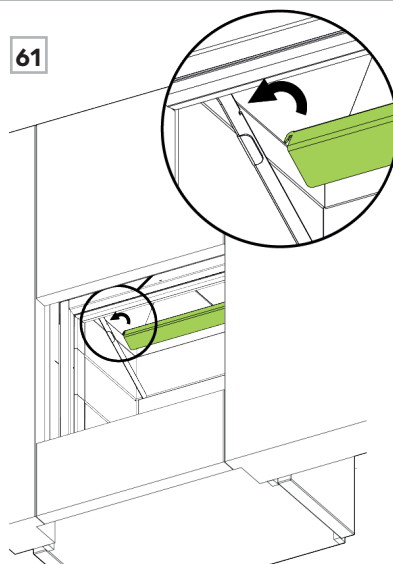
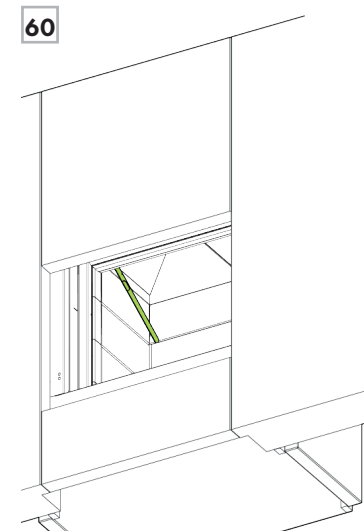
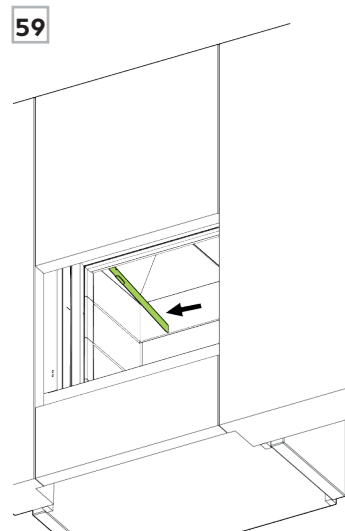
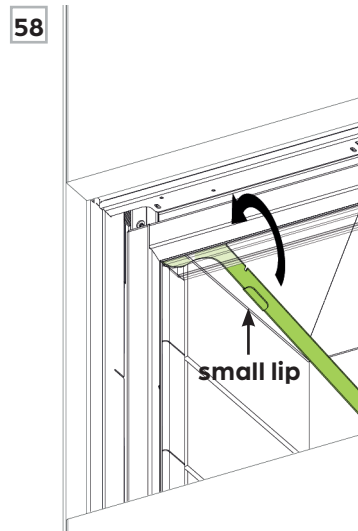
Step 59 The other extremity of the baffle support should rest on the top of the highest refractory brick located in the back of the combustion chamber.

Step 60 Repeat the previous steps to install the support on the other side.

Step 61 Place the crossbar over the supports and insert the two hooks of the crossbar into the notches in the baffle supports.

Step 62 Slide the vermiculites onto the flat edge of the crossbar and on top of the back refractory bricks.

Step 63 Place all vermiculites. If there are three vermiculites, finish with the centre one.



MODEL	VERMICULITES
21- sf 85	50102031 x2 (278mm X 315mm)
21-sf 95	50102033 x2 (369mm X 307mm)
21-sf 105	50102021 x3 (276mm x 236mm)
21-sf 125	50102023 x3 (346mm X 277mm)



NOTE

For **df** models only.

Step 64 Enter the two pointy ends of the baffle support into the notches located on the inside of the fireplace near the doors. The small lip must be towards the inside of the fireplace. Repeat for the opposite side.

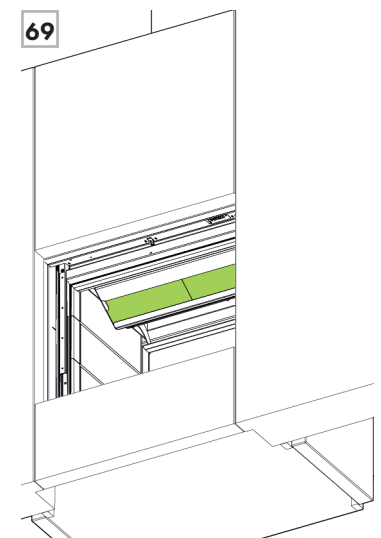
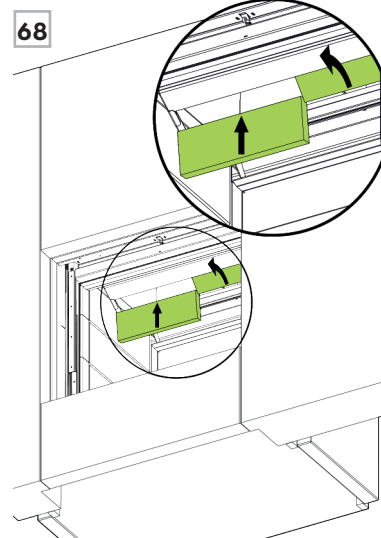
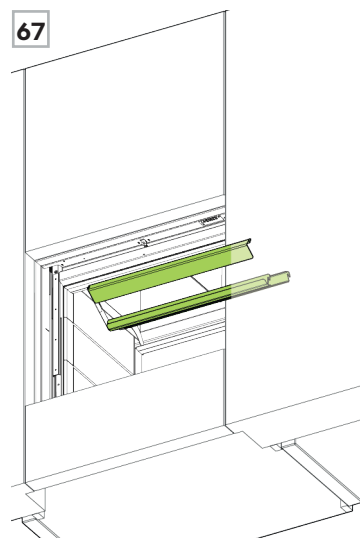
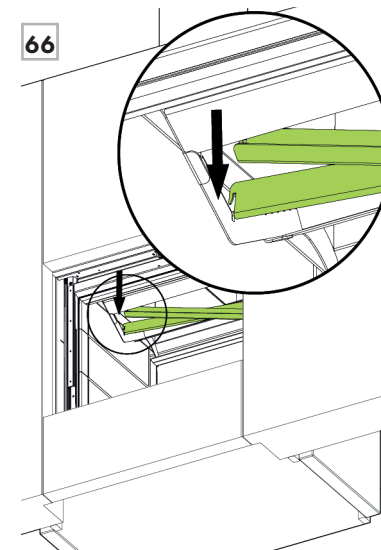
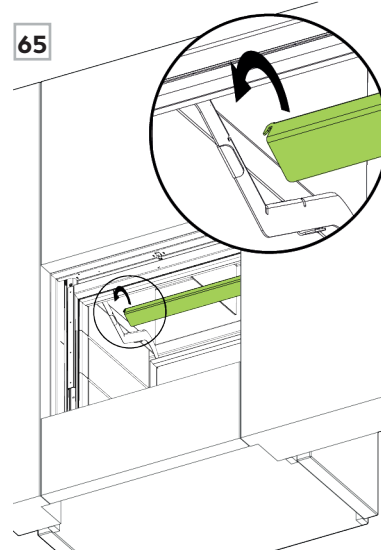
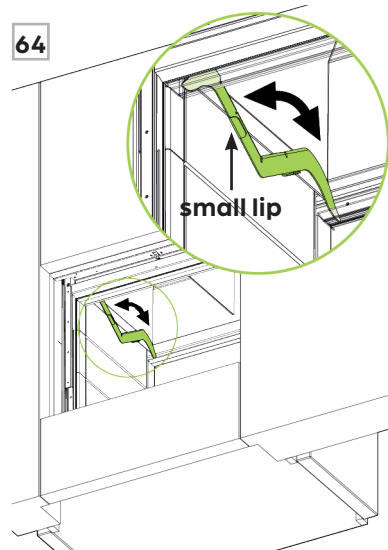
Step 65 Place the two crossbars onto the baffle supports and insert the hooks into the notch on the baffle support.

Step 66 The edges of the crossbars should be facing towards the glass doors.

Step 67 These crossbars will be used to install the vermiculites. Make sure they are firmly secured into the notches.

Step 68 One at a time, place the vermiculites between the edges of the crossbars so they sit on them.

Step 69 Place all vermiculites. If there are three vermiculites, finish with the centre one.

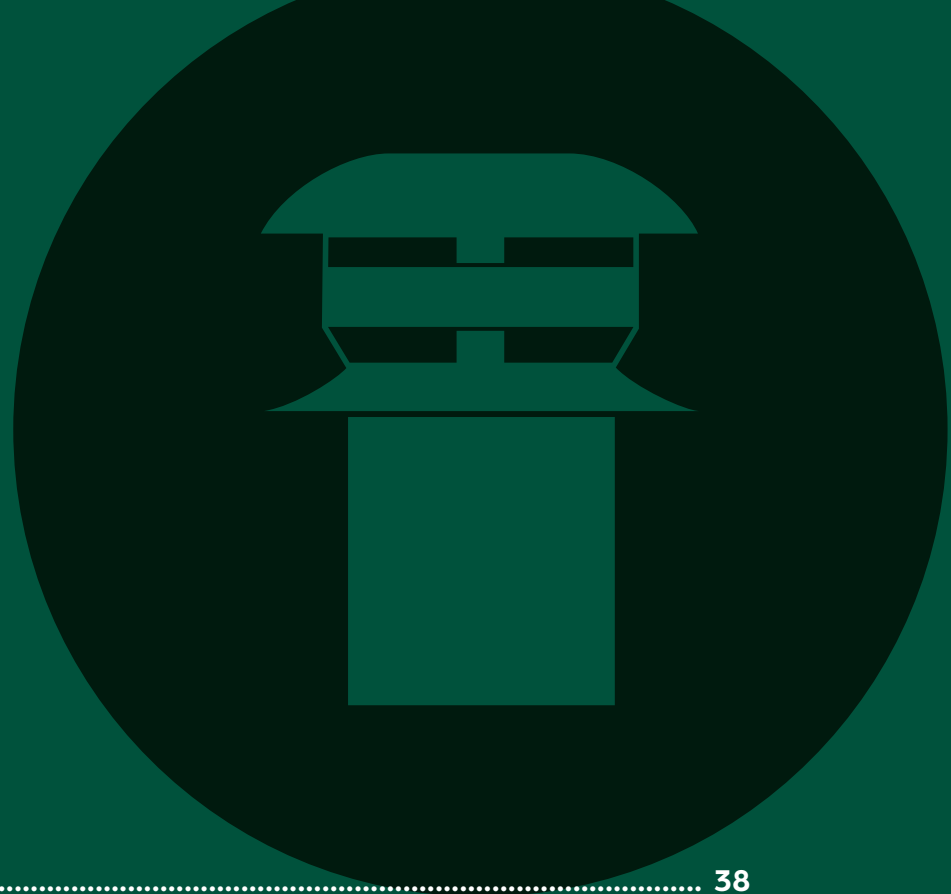


MODEL	VERMICULITES
21-df 85	50102030 x4 (315mm X 105mm)
21-df 95	50102032 x4 (366mm X 166mm)
21-df 125	50102022 x6 (345mm X 112mm)

5

CHIMNEY

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5.1 DIMENSIONS AND CERTIFICATION



CHIMNEY DIAMETER

Use only an insulated chimney complying with standard **UL-103HT** or **ULC-S629**. Contact the local fire department before starting work for more information.

MODEL	Ø int.	Ø ext.†
21-sf 85	8"	10" à 12"
21-sf 95	10"	12" à 14"
21-sf 105	8"	10" à 12"
21-sf 125	10"	12" à 14"

MODEL	Ø int.	Ø ext.†
21-df 85	10"	12" à 14"
21-df 95	12"	14" à 16"
21-df 125	12"	14" à 16"

† Exterior diameter may vary.



CAUTION

- Carefully read the instruction manual provided with your chimney before installing.
- Do not use makeshift means during installation. This could pose a danger, compromise safety and result in a fire.
- Do not connect the appliance to a chimney that is already connected and used by another appliance. A chimney used as an outlet for a stove must not be used for more than one appliance.
- Do not install the chimney directly at the outlet of the appliance. A chimney connector (flue pipe) is required unless the appliance is specifically approved for that type of installation.
- Do not cut trusses, rafters or ceiling joints without consulting a building official to ensure that the building's structural integrity has not been compromised.
- If this unit is not installed properly, a fire may result. To reduce the risk of fire, follow the installation instructions.
- Contact the local authorities to obtain a building permit and take note of all applicable regulatory requirements.
- A chimney connector shall not pass through an attic or roof space, closet or similar concealed space, or a floor, or a ceiling.
- The chimney and the required chimney connector must be in good condition and kept clean.

CHIMNEY LENGTH

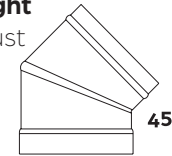
MIN. 15' / MAX. 45'

The chimney height must be between **15 feet (min.)** et **45 feet (max.)** from the anchor plate of the appliance to the underside of the rain cap.

IMPORTANT

It is preferable but not mandatory to install a straight chimney section between the unit and an offset.

In this case, **a straight vertical section** must be installed after the angle.



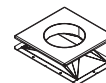
MODEL	B
85	58 5/16"
95	62 11/16"
105	55 5/16"
125	58 5/16"



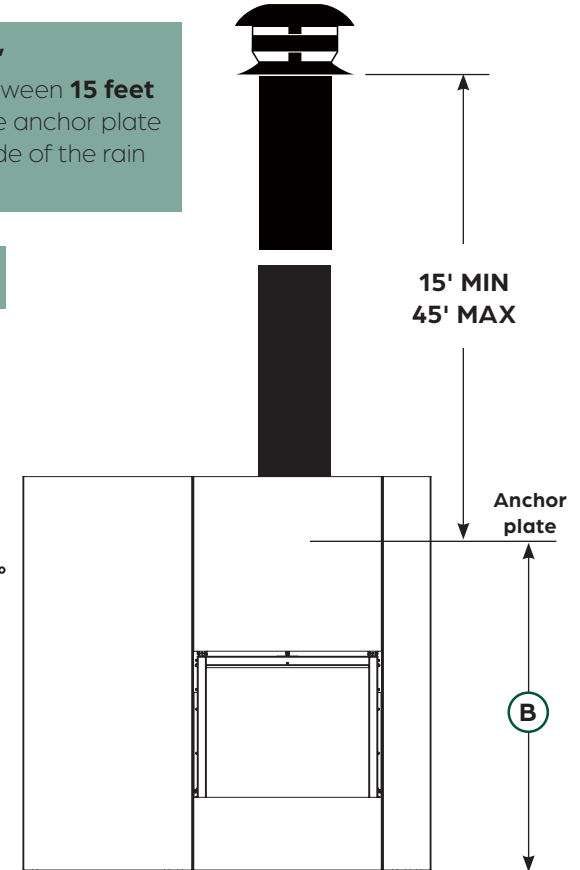
Before making the connection, make sure the fireplace is in its final position and is level (page 29, if necessary).



After first fastening an anchor plate to the smoke outlet with a first chimney section (see page 29), complete the chimney connection by following the procedure on the next page.



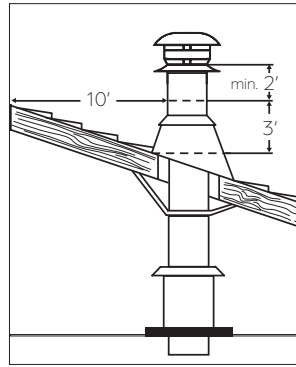
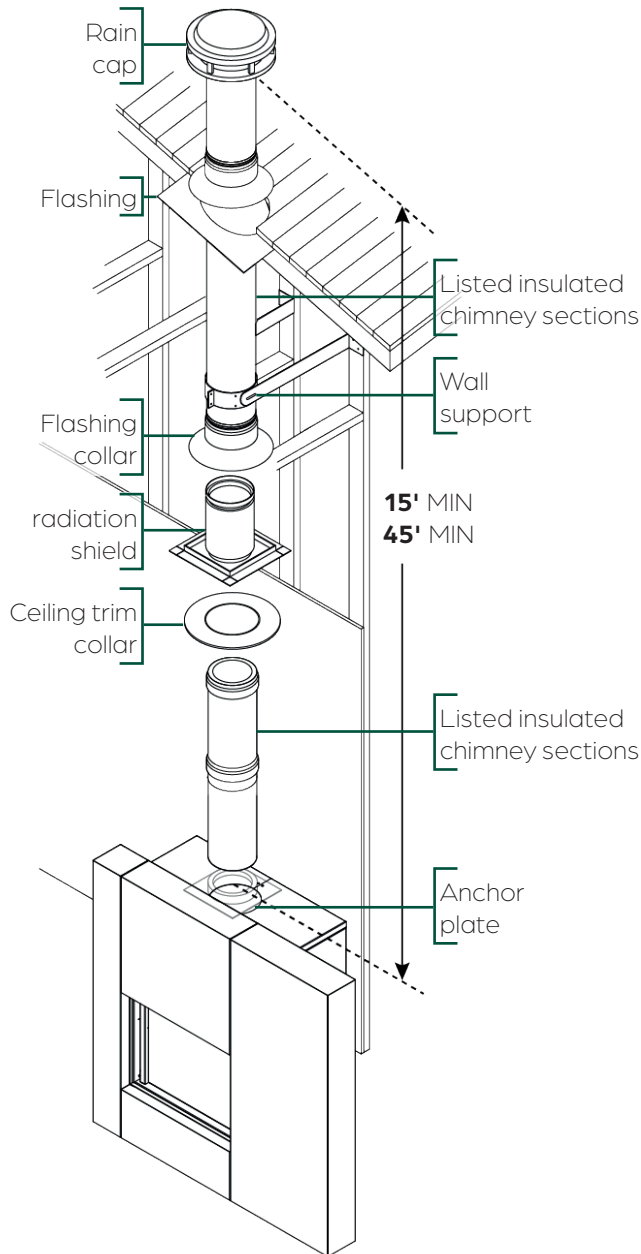
Calculate the required chimney length according to the information on this page and obtain all required components.



5.2 TYPICAL INSTALLATION



INSTALLATION DIAGRAM



INSTALLATION PROCEDURE



CAUTION

Care must be taken during the chimney's installation. Shortcuts or compromises may result in safety hazards or even a fire.

Carefully read the installation manual provided with your chimney before installing. Some configurations may change the order of the steps.

Step 1 Once the stove is in place, install the double-wall chimney sections almost up to the ceiling.

Step 2 Create an opening between the ceiling(s), aligned with the chimney sections used. The cutout must be sufficiently large to fit the insulated chimney pipe.

Step 3 Install a chimney adapter and a ceiling trim collar to transition to the insulated chimney pipe.

Step 4 Install a radiation shield under each floor/ceiling the chimney crosses. In the attic space, install a radiation shield and a flashing collar.

Step 5 Connect the insulated chimney pipe sections all the way to the ceiling, from the first section installed previously. **Follow the chimney manufacturer's instructions** to maintain the continuity of airtightness with an effective vapor barrier at the location where the chimney or other component penetrates the exterior of the structure.

Step 6 Once at roof height, install a roof radiation shield. The shield must be installed so that it extends 1' above the roof line.

Step 7 Install the flashing.

- If the chimney is enclosed up to the roof, use ventilated flashing.
- If the chimney is not enclosed up to the roof, use regular flashing

Step 8 Gasket the joint between the roof and the flashing using asphalt-based gasketing compound. For a pitched roof, place the flashing under the upper shingles and over the lower shingles. Nail the flashing to the roof using roofing nails.

Step 9 Install the flashing collar around the chimney, just above the flashing. Gasket the collar with silicone gasket. **(Do not use asphalt-based gasketing compound).**

Step 10 Install and secure the rain cap to the top of the chimney.

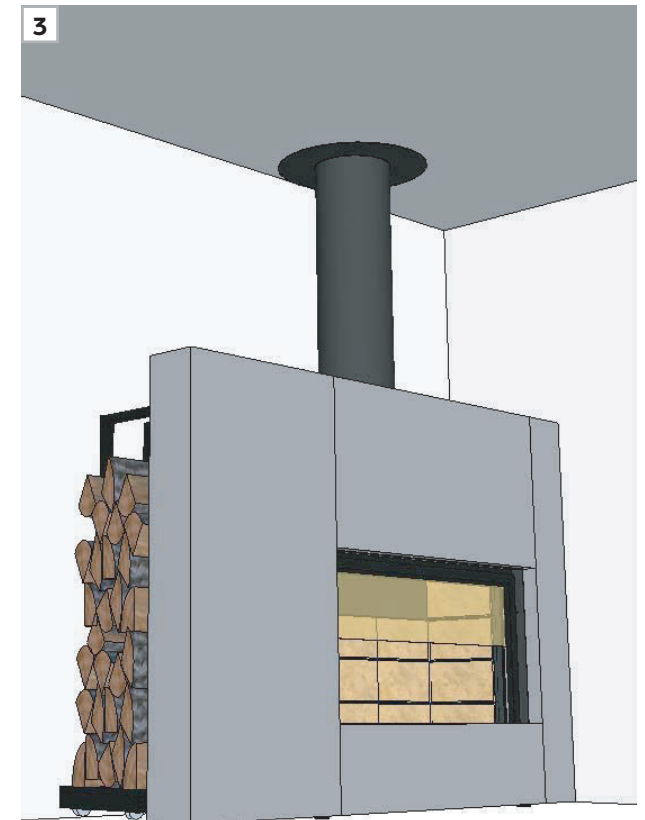
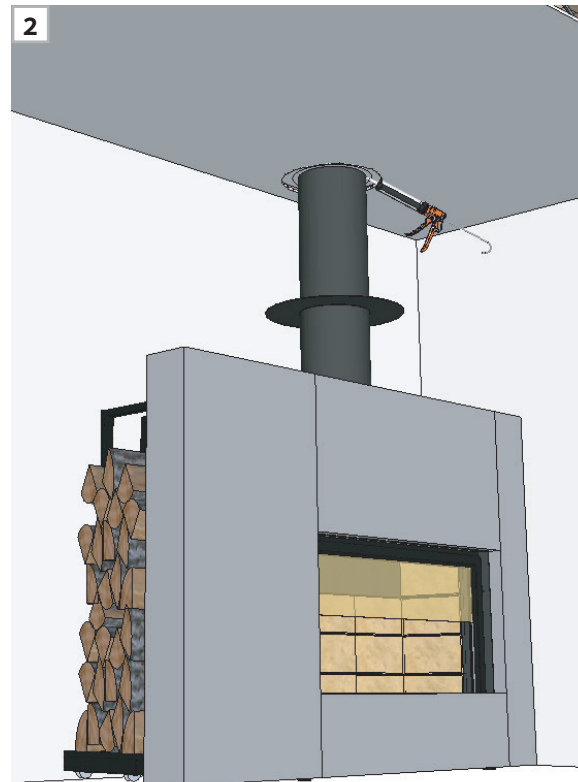
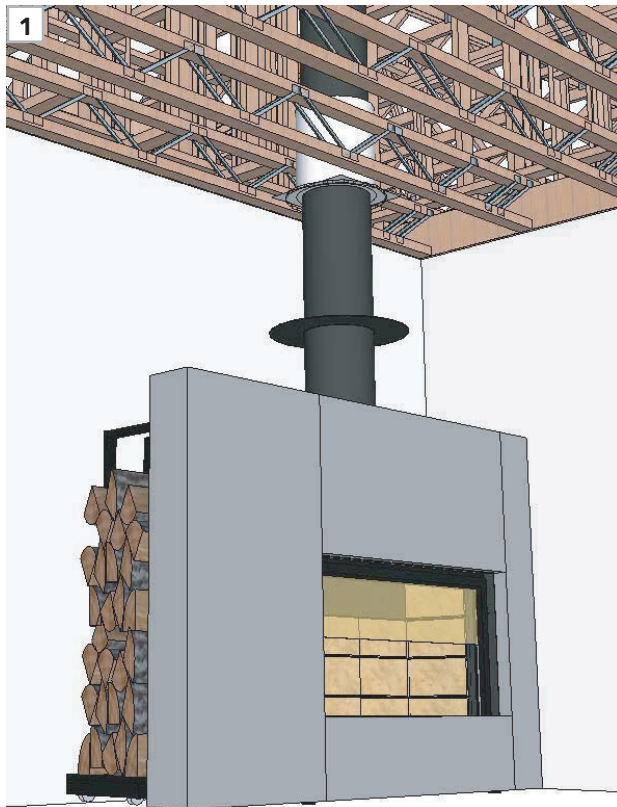
5.3 CEILING RING



Step 1 Install the radiation shield between the floor joists and drywall.

Step 2 Install the drywall, leaving 2" clearance all around the chimney. Seal the opening between the chimney and the radiation shield with high-temperature silicone (red).

Step 3 Install the ceiling ring using screws.





The masonry hearth must conform to **N.F.P.A. 211**, to **CAN/CSA A405** or to the **National Building Code of Canada**.

This unit has to be connected to a chimney complying with the requirements for:

- **UL-103HT | CAN/ULC-S629**
- **ULC-S635 | ULC-S640 | UL-1777**

The installation of a Stûv stove in a masonry chimney still requires the installation of a section of an chimney section above the stove until it connects to the listed liner that will line the inner surface of the masonry chimney. A rigid stainless steel liner must be installed inside the fired clay liner inside the masonry chimney. The rigid liner does not replace the fired clay liner in any way. You must ensure that the chimney section and the liner are strongly secured together.

A masonry adapter FO-FDM(X) has been designed specifically for this use and is available from a dealer. This adapter attaches with 3 rivets (supplied) to the rigid liner and with 3 screws (supplied) to the chimney. Once the mortar is in place, the joint between the chimney and the rigid liner should not be visible in order to isolate the heat released through the liner from the stove enclosure. You must install a section of chimney of at least 46 cm after the chimney elbow.

The highest point of the chimney, where the chimney enters the masonry chimney, must be no less than 12 1/4" from combustible ceiling materials.

If ceiling height permits, install one of the chimney lengths directly on the stove, before the elbow. If a flexible liner is used, cleaning should be carried out carefully so that it is not displaced.



ATTENTION

If you plan to use an existing masonry chimney, you must have it inspected by competent authorities to confirm the following points:

- The masonry chimney is properly constructed, fully lined and complies with municipal by-laws and the National Building Code of Canada (NBC) or National Fire Protection Association (NFPA 211) standard.
- The masonry chimney has been completely cleaned of all soot and creosote residue and has been inspected to confirm that it is still in good working order. There is no insulation of any kind in contact with the masonry chimney and there is no insulation of any kind trapped anywhere in the chimney.
- All necessary clearances around the masonry chimney, along the entire length of the masonry chimney, are complying with NBC or NFPA 211. If the masonry chimney is enclosed behind drywall boards, openings must be made to confirm all clearances.
- The masonry chimney will be used only for the stove and not for any other appliance.
- If major repairs are required to meet the above mentioned points, a new masonry chimney will have to be built.

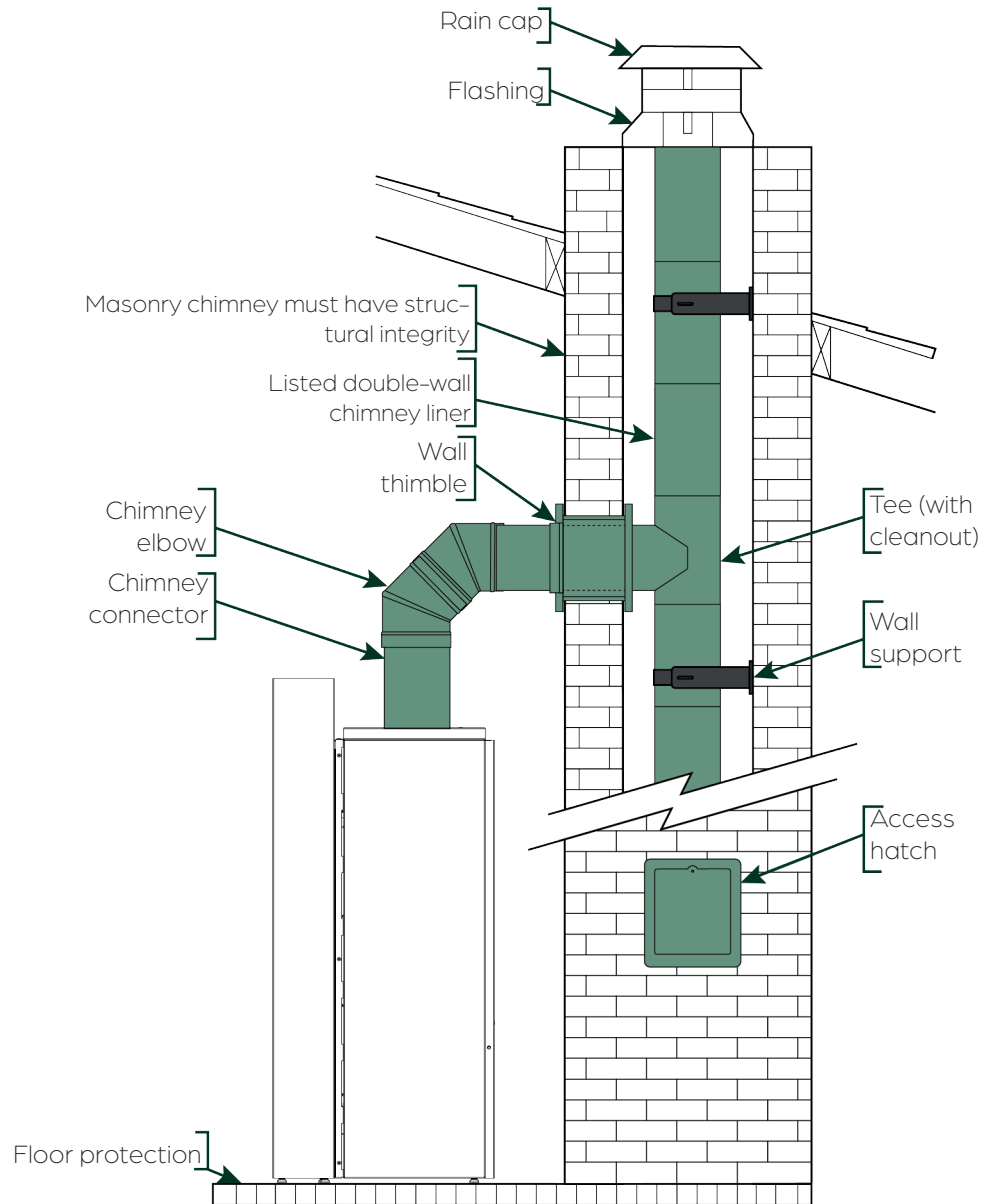
To make a hole in the masonry chimney and connect it to the stove, we recommend that you follow these steps:

- Determine and mark where the chimney is to be inserted into the masonry chimney. Using a large masonry drill bit (3/4 - 2"), drill a hole exactly in the centre of the oval line. Using a masonry hammer and drill, gradually widen the hole to the desired size. Remember to work from the centre of the hole to the outside. Be particularly careful when drilling the fired clay liner behind the brick as the other three sides must remain in place.
- Slide the stainless steel liner from the top of the chimney down. If you are using a rigid liner, you will need enough space to fix an elbow with at least 2 rivets. If the rigid liner does not slide easily or if the masonry chimney has an interior opening of less than 10" X 10", a listed flexible liner can be used with a flexible/rigid adapter (LM-7LAF) available from a chimney dealer.
- Install the rigid liner elbow and masonry adapter at the lower end of the liner.
- Push the stove forward to install the chimney (elbow and length) and then push the stove back into place while connecting the chimney to the masonry chimney adapter.

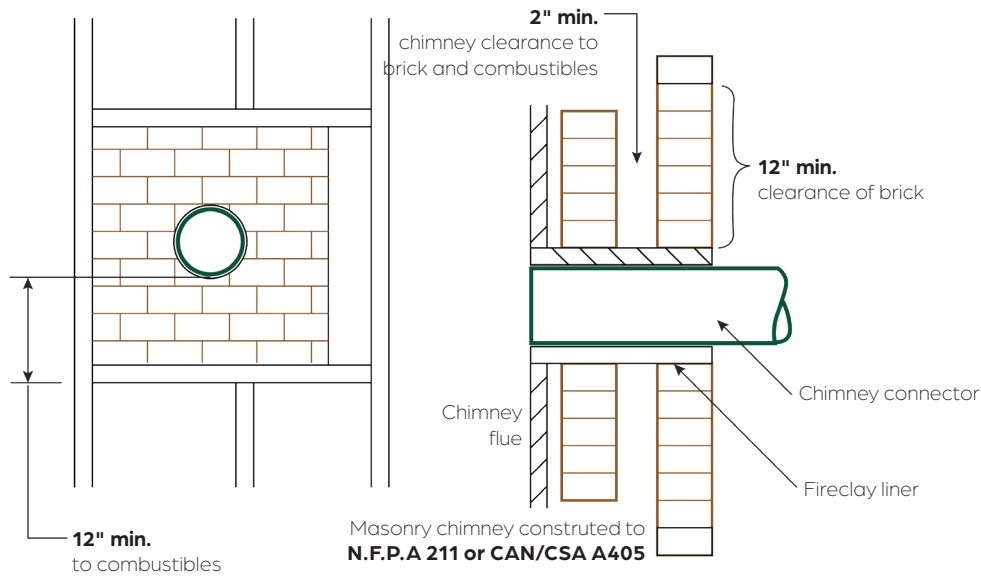
5.4 MASONRY CHIMNEY



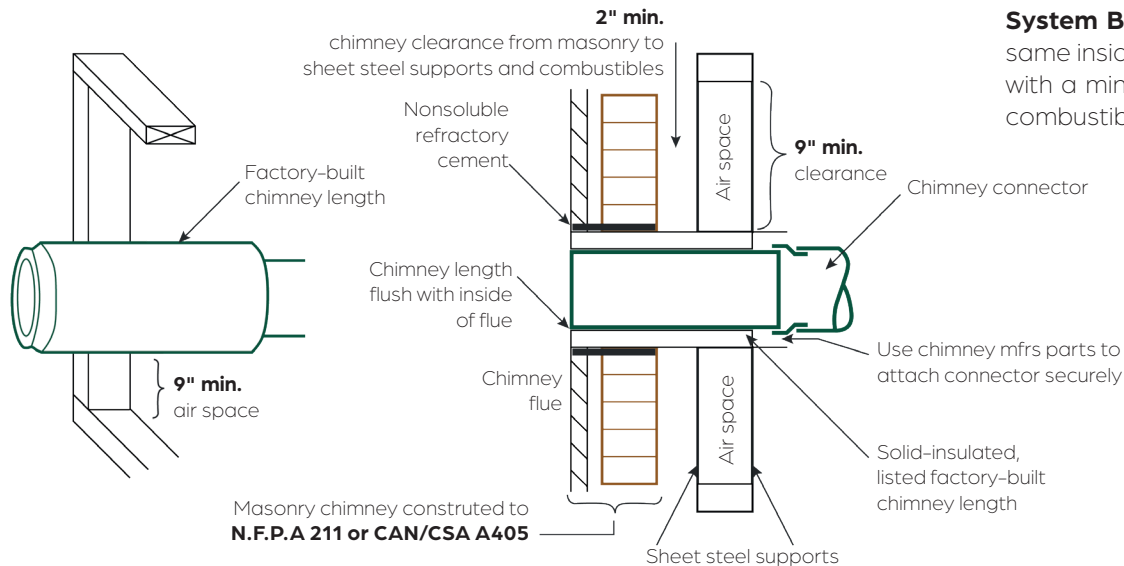
CHIMNEY PIPE THROUGH MASONRY CHIMNEY



5.5 CHIMNEY THROUGH A COMBUSTIBLE WALL

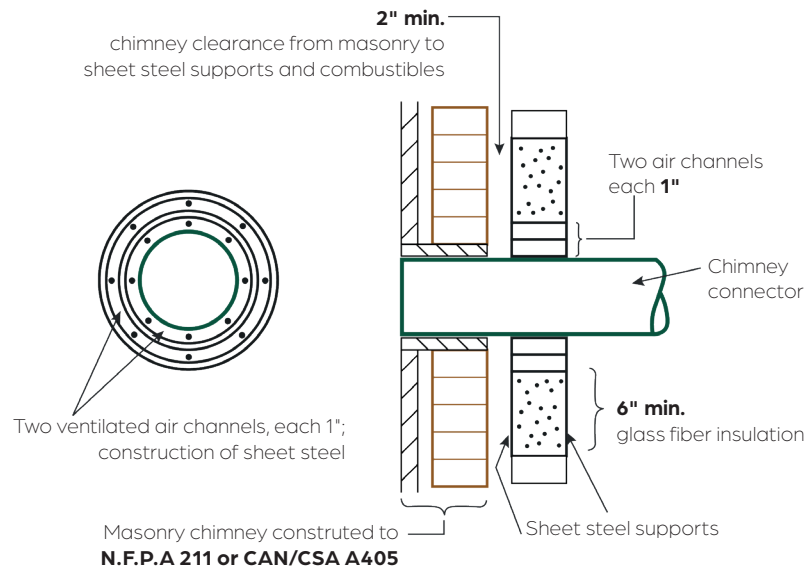


System A: Clearance: 12" Minimum 3.5" thick brick masonry wall framed into combustible wall with a minimum of 12" brick separation from clay liner to combustibles. The fireclay liner shall run from outer surface of brick wall to, but not beyond, the inner surface of chimney flue liner and shall be firmly cemented in place.

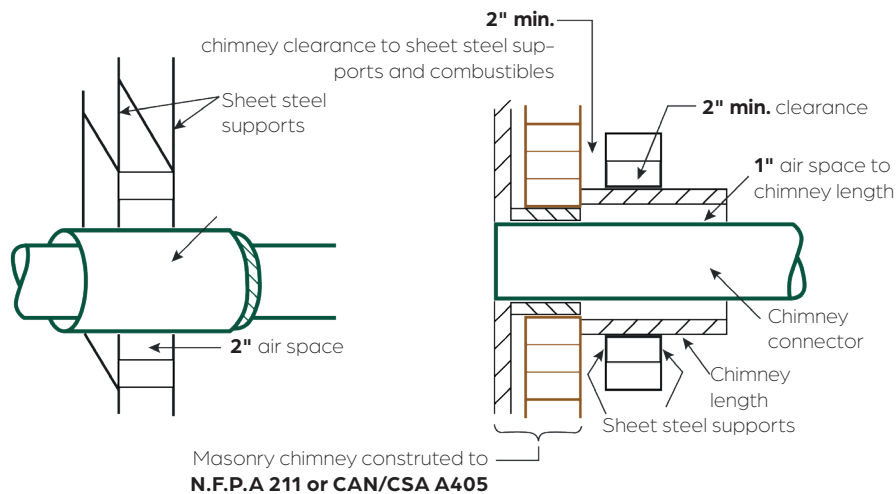


System B: Clearance 9" Solid-insulated, listed factory-built chimney length of the same inside diameter as the chimney connector and having 1" or more of insulation with a minimum 9 in. air space between the outer wall of the chimney length and combustibles.

5.5 CHIMNEY THROUGH A COMBUSTIBLE WALL



System C: Clearance 6" Sheet steel chimney connector, minimum 24 gauge [0.024"] in thickness, with a ventilated thimble, minimum 24 gauge [0.024"] in thickness, having two 1" air channels, separated from combustibles by a minimum of 6" of glass fiber insulation. Opening shall be covered, and thimble supported with a sheet steel support, minimum 24 gauge [0.024"] in thickness.



System D: Clearance: 2" Solid-insulated, listed factory-built chimney length with an inside diameter 2" larger than the chimney connector and having 1" or more of insulation, serving as a pass-through for a single wall sheet steel chimney connector of minimum 24 gauge [0.024"] thickness, with a minimum 2" air space between the outer wall of chimney section and combustibles.

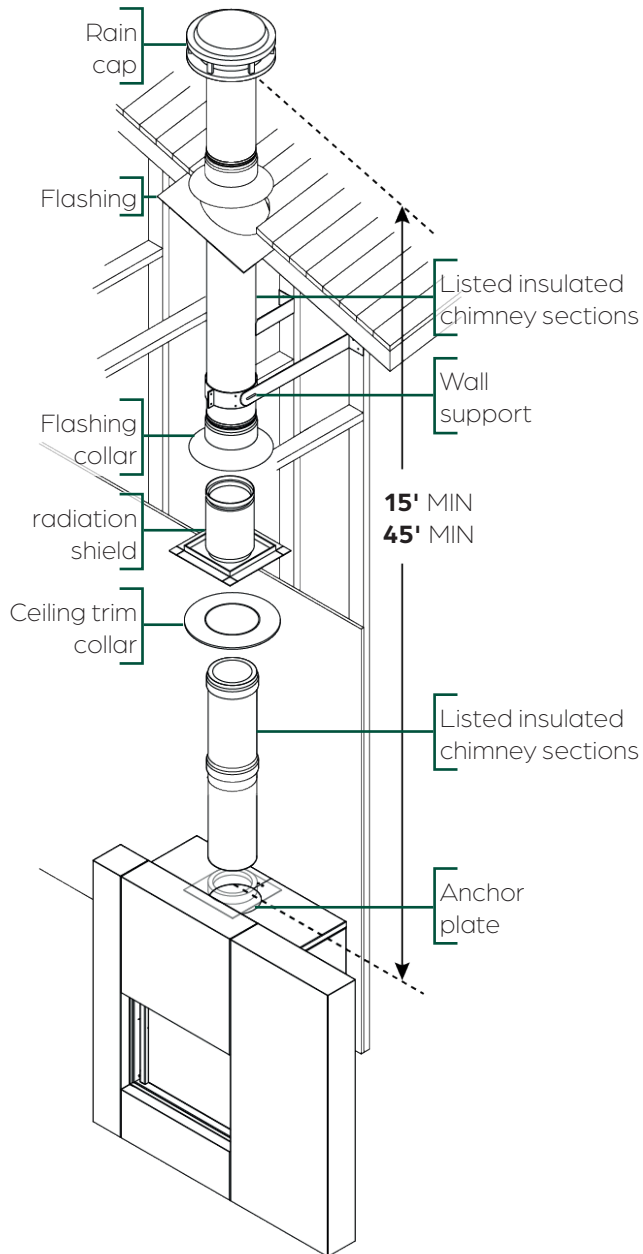
Minimum length of chimney section shall be 12". Chimney section concentric with and spaced 1" away from connector by means of sheet steel support plates on both ends of chimney section. Opening shall be covered, and chimney section supported on both sides with sheet steel supports of minimum 24 gauge [0.024"] thickness.

Supports shall be securely fastened to wall surfaces on all sides and shall be sized to fit and hold chimney section. Fasteners used to secure chimney section shall not penetrate chimney flue liner.

5.6 CHIMNEY IN TRANSPORTABLE BUILDING (CANADA ONLY)



INSTALLATION DIAGRAM



A unit installed in a transportable building must be connected to a chimney complying with the requirements for:

- **UL-103HT | CAN/ULC-S629**

The air supply is important for an installation in transportable building. See **DIMENSIONS – Convection air and Air supply** for details.

The stove required to be fixed to the floor. See **INSTALLATION – Positioning and options** for details.

WARNINGS FOR TRANSPORTABLE BUILDING :

- It is permit to install this unit in a transportable building in **CANADA ONLY**.
- Do not install in sleeping room.
- The structural integrity of the mobile home floor, wall and ceiling/roof must be maintained.
- Remove the chimney for transportation of the building.
- The unit must be permanently fixed to the floor. Drill and screw in the adjustable stand.

6

USE

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6.5	RELOADING THE FIRE.....	52
6.6	ASH REMOVAL	52





HUMIDITY LEVEL

It is essential to use **dry wood** that has a moisture content of **less than 18%**. This will ensure **more efficient** and **clean combustion**.

Using **wet or semi-dry wood** with a moisture content **higher than 18%** will result in mediocre and less efficient combustion. The fire will be smaller and difficult to start. It will release a great deal of **black smoke** and **pollution** into the air and also sully your glass and chimney pipe.

To choose dry wood, use a moisture meter or check if...

- The wood is lightweight and slightly split
- You hear a snap when banging one log against the other
- The bark comes off easily
- There are cracks from the centre to the edge

IMPORTANT

Store the wood in a weatherproof location to keep it dry. Do not store it in the risk area, stove loading area, ash removal area or inside the mandatory clearances indicated in the **DIMENSIONS** section.

HARDWOOD OR SOFTWOOD

The harder a wood is, the more heat it will produce and the slower it will burn (at equivalent moisture content). Softwood can be used as kindling over hardwood. It burns more quickly (at equivalent moisture content) despite its lower calorific value.

- **Hardwood:** oak, beech, elm, ash, acacia, hornbeam, maple
- **Fruit tree wood:** walnut, cherry, pear, apple, olive
- **Softwood:** poplar, birch, linden., locust, chestnut
- **Resinous wood:** maritime pine, spruce, Scots pine, fir, larch

WOOD TYPES

Ash and beech are recommended as firewood as they dry quickly and are easy to find. They must be stored under a shelter immediately after being cut and split, otherwise they rot very quickly and lose their calorific value. They are easy to light and produce very bright, lively flames.

Maple has a good calorific value. It produces fires and embers that last a long time.

Oak is an excellent fuel, but unlike other wood species, it has to remain uncovered for two years to allow the rain to remove the tannins it contains. Then it has to be stored under shelter for another year or two before it can be burned. Small oak branches have a high sapwood content, which burns too quickly. Oak burns slowly, produces a calm fire and beautiful embers. It is ideal for barbecuing and for moderate fires.

Hornbeam, cherry and fruit trees are excellent fuels, but are rare. These are hardwoods. They produce beautiful, harmonious and calm flames, and beautiful embers. Ideal for a barbecue or a calm fire.

Birch, linden, chestnut, poplar and black locust are broad-leaved trees with soft wood. They produce beautiful, harmonious, but bright flames and few embers. Because they burn quickly, they can be used to start (or restart) the fire. Caution: Poplar produces abundant and volatile ash while black locust produces significant sparks.

Resinous woods (not recommended) generate a lot of heat, but they burn quickly. They throw sparks and the resins they contain cause build-up in the chimney.

CALORIFIC VALUE

Each type of wood has a different calorific value and all burn in different ways.

We strongly encourage the use of hardwoods such as hornbeam, maple, oak, ash, elm and beech. They produce beautiful flames and plenty of embers that glow for a long time.



CAUTION – NOT TO BE USED

Burn only firewood. Do not burn:

- Garbage
- Lawn clippings, yard waste or unseasoned wood
- Materials containing plastic, petroleum-based products, gasoline, liquid fuel or rubber, including tires
- Waste petroleum products, paints or paint thinners, or asphalt products
- Industrial solvents
- Flammable liquids such as naphtha and motor oil
- Painted wood, varnished wood or chemically treated wood
- Materials containing asbestos
- Construction or demolition debris
- Salt water driftwood or other previously salt-water saturated materials
- Railroad ties or pressure-treated wood
- Manure or animal remains
- Paper products, cardboard, plywood, or particleboard. The prohibition against burning these materials does not prohibit the use of fire starters made from paper, cardboard, saw dust, wax and similar substances for the purpose of starting a fire in this unit
- Any substance that emits dense fumes and strong odours

The heat produced by these materials is too great and can damage the appliance, in addition to causing soot to form on the glass and on the inside of the chimney pipe. These materials produce toxic and polluting fumes, such as carbon monoxide, which can be hazardous to health. Burning these materials may result in release of toxic fumes or render the heater ineffective and cause smoke.

Composite logs (ecological): Composite/ecological logs are to be avoided. They sometimes emit residues that sully the mechanisms and cause the appliance to age poorly.

This wood heater has not been tested with decorative sets (logs, pebbles) for unvented gas fireplaces. To reduce the risk of fire and/or injury, it is prohibited to install a decorative set in the combustion chamber of the appliance.

Do not use a grate or other method to elevate the fuel. Burn firewood directly on the hearth floor. Do not elevate the fire.



CAUTION

Read the safety instructions on page 5 before using the stove.

Upon first use, some smoke or odours may be produced. **Ventilate the room well.**



In case of a chimney fire

1. Call the fire department.
2. Put out the fire with a type A or ABC extinguisher (powder, foam or water and additive). Avoid using a bucket of water or any other hazardous method to put it out.
3. Air out the room in which the unit is located.
4. After a chimney fire, have the chimney cleaned and inspected by a professional.
5. Make any repairs necessary before using the unit again.

LOCATION AND EFFICIENCY

Every solid fuel installation is unique. It is imperative to consider the location of your appliance for optimum heating efficiency but also proper performance. **Geographical location** can have a huge impact on the performance of the appliance. **Sufficient draft** is the most important aspect in solid fuel heating. For maximum efficiency, the appliance should be installed in locations to allow for the highest possible rate of success. In general, the appliance will perform best in **main living areas with an inside insulated chimney**. This will allow for the best air combustion situation and highest draft potential.

If the outside temperature is higher than the inside temperature, load more paper and more kindling to properly heat the chimney pipe and thus counter the temperature imbalance. First ignite balled-up pieces of paper and about 1 to 1 1/2 lb. of kindling $\pm 3/4$ sq. in.-thick.

The maximum load to avoid overfiring is **2x the weight of the hourly consumption**. Refer to the table on page 5.



The guillotine firescreen can be fixed at **three predefined heights**. During installation, the firescreen will be in maintenance mode.

1. Open fire mode

To operate the unit without the glass in front of the fire, the open fire mode is required to prevent falling embers and logs. The firescreen must be lowered to the bottom cover plate by inserting the fireplace handle into the cylinder.

2. Maintenance mode

This position is used to tilt the door, when the fireplace is being cleaned, and when not in use.

To get out of maintenance mode,

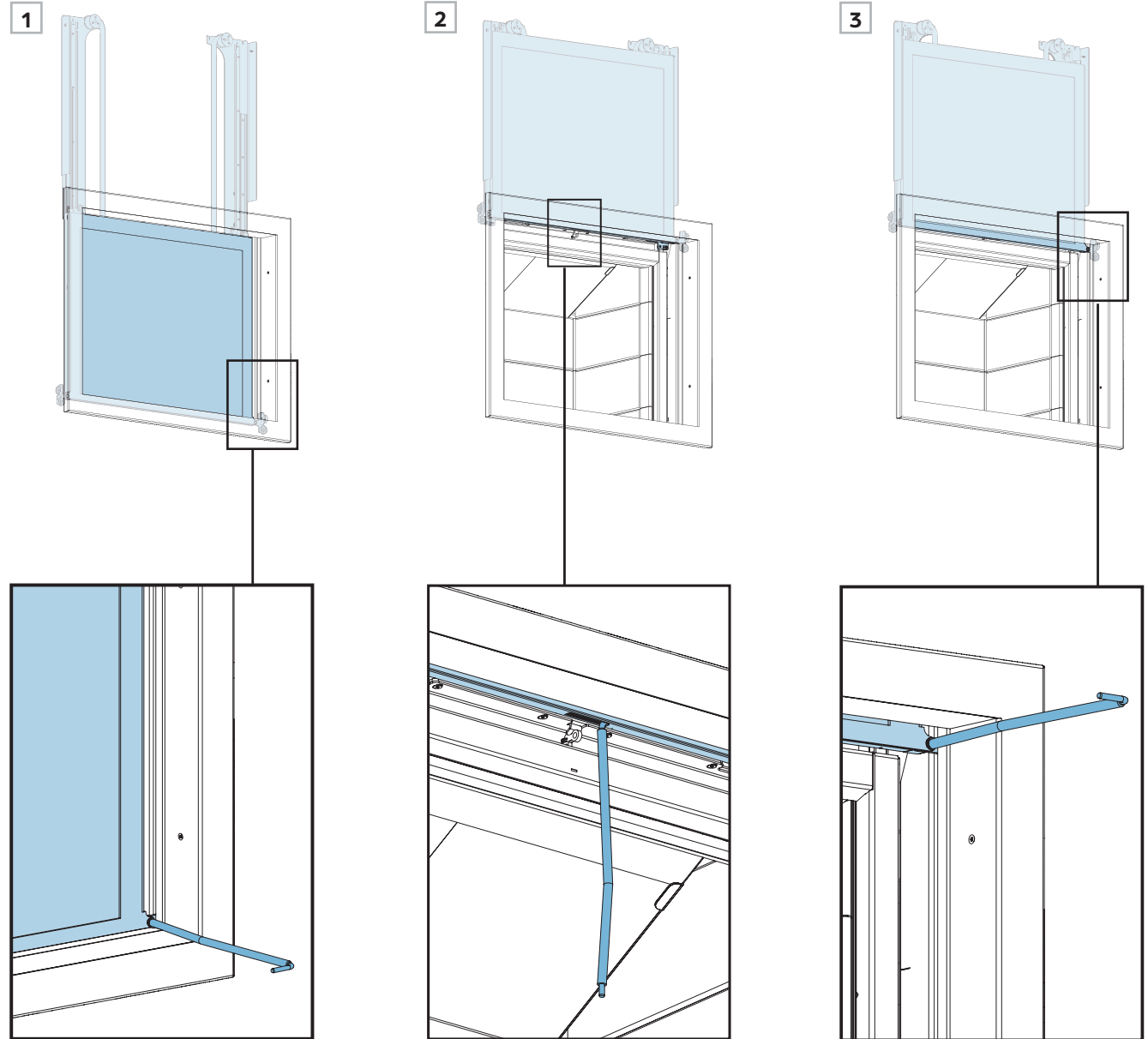
slide the curved tip of the fireplace handle into the opening under the frame and pull downward.

To put the firescreen into maintenance mode, manually push the firescreen upward, considering that the handle cylinder will not be accessible.

3. Recharging mode

To start a fire or add logs, secure the firescreen in recharging mode to ensure its stability. To put it into this position, lift the handle cylinder with the fireplace handle to the top of the fireplace door, keeping the bottom of the firescreen visible.

Recharging mode allows access to the handle cylinder and the ability to raise and lower the glass to adjust air supply while starting a fire.





CAUTION

Read the safety instructions on pages 5 and 6 before using your fireplace. Upon first use, some smoke or odours may be produced.

Ventilate the room well.

Never leave the fireplace handle on the unit or in front of the glass during use, the handle will get hot and may cause burns.

Do not stir or agitate the wood when it is burning.

The best performance of your appliance is obtained **when the glass is closed** (glass door). **Open door** operation consumes more air, more wood and releases more gases into the atmosphere. For these reasons, we recommend choosing this mode of operation **for special occasions!**

Avoid unattended open fire operation. With the firescreen, the window can be fully or partially raised (approx. 2/3). In this position, perceptible through a small notch in the door jamb, gaskets ensure smoke-tightness. **Avoid any other intermediate position**, there is a slight risk of back draft.



IMPORTANT

When the fireplace is used in open fire or raised glass mode, it is **mandatory** to use the firescreen.

This Stûv unit needs air for combustion. Ideally, the installer will connect the stove to the outside air using a duct.

If the air damper is installed, open it to start the fire.

Do not build the fire too close to the glass and **do not start a fire if the glass is broken.**

Always keep the duct free of obstructions.

The stove's proper operation can be affected by air-supplied systems installed in the same room (air exchanger, range hood, air conditioning, etc.) and this may result in smoke backflow.



UPSIDE-DOWN FIRE!

We recommend starting the fire using the upside-down fire method. It is more efficient and eco-friendly.

The advantages:

- Putting the logs in first will greatly reduce the smoke that is produced since the temperature will rise gradually.
- The stove's efficiency will also increase with complete combustion.

- Once the logs underneath have caught fire, the combustion gases pass through the flames. As they increase in temperature, they are nearly completely degraded and the stove therefore emits less CO and fewer particles.
- With this method, there is less risk of logs falling during combustion since the bigger pieces are at the bottom.

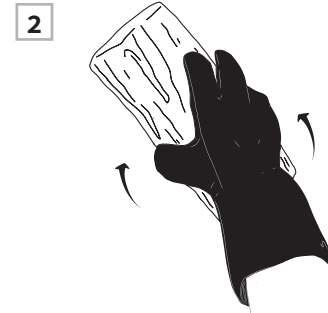
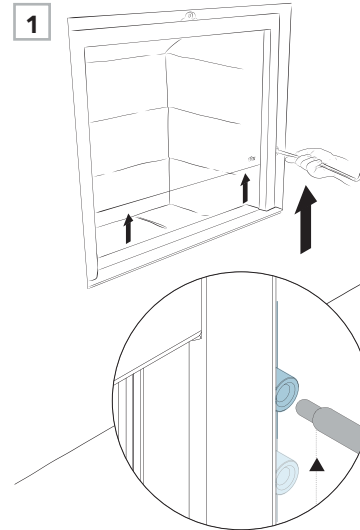
The instructions for building a upside-down fire can be found on the next page.



Step 1 Using the fireplace handle provided with the unit, slide the glass up.

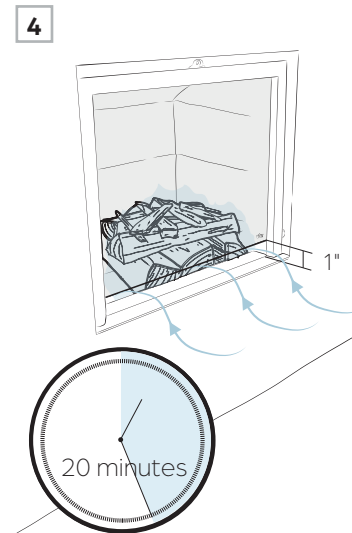
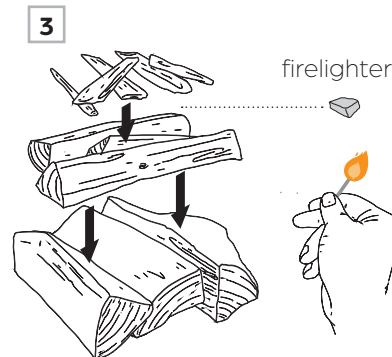
Step 2 Place the wood logs in the combustion chamber using the inverted lighting technique as shown for a better combustion.

- Place the big logs in the combustion chamber first.
- Add smaller pieces with no bark, placed perpendicularly.
- Gather the kindling and cover the wood already present (approximately 1 kg of kindling).



Step 3 Insert an eco-friendly firelighter on the kindling. Light the fire.

Step 4 Leave the glass door ajar by about 1" for a minimum of 20 minutes. This helps create a better draft when starting the fire and prevents smoke condensation and soot deposits.



NOTE

The total load must not exceed $\frac{2}{3}$ of the combustion chamber so as not to overheat the unit.

6.5 RELOADING THE FIRE



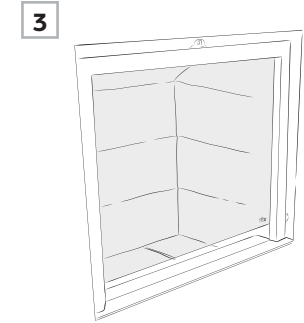
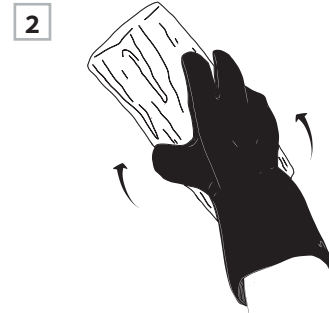
Step 1 Raise the glass gently to avoid air backdraft.

Step 2 Add wood using the Stûv glove supplied with the appliance.

Step 3 Close the glass and enjoy the fire*.

* It is normal to feel resistance when lifting the glass while the fire is operating.

Do not tilt the door when the fireplace is hot. Use only the guillotine glass.



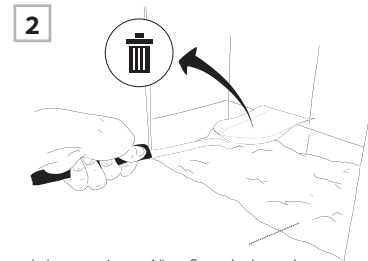
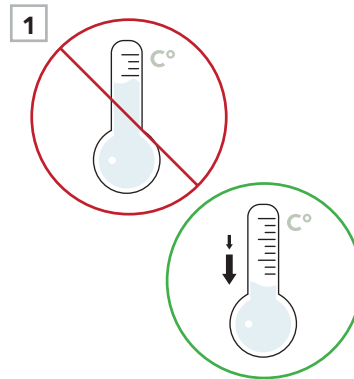
NOTE
Burning 1 log at a time will create an accumulation of embers and charcoal. With 2 logs or more, combustion will be optimized and unburned residue will be reduced

6.6 ASH REMOVAL

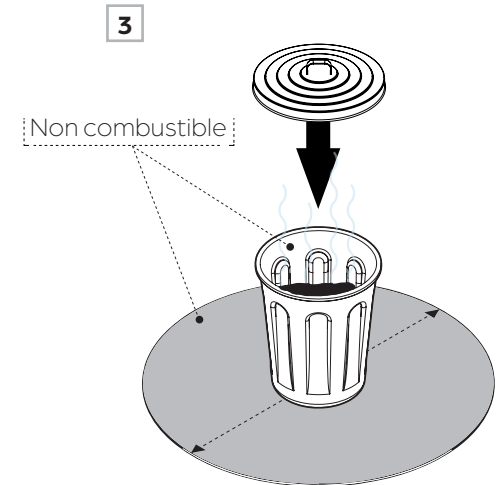
Step 1 Wait until the ashes are cold before safely raising the glass.

Step 2 Use an ash shovel to remove ashes. Place the ashes in a metal bucket.

Step 3 Place the ash-filled bucket on a non-combustible floor. Keep the bucket away from all combustible material.



* Leaving 1" of ash bed after each use helps start the next fire.



NOTE

Before disposing of ashes, they must be kept in a **non-combustible bucket with a tight-fitting lid** until they are completely cooled. It is mandatory to **remove ashes regularly** to prevent ash infiltration into the air system. In addition, hot ashes can damage the lower glass gasket. **The warranty does not cover this damage.**

7

MAINTENANCE

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7.1 REGULAR MAINTENANCE

1. During the heating season, have your chimney regularly inspected by a professional. Soot removal (sweeping) is recommended every two months to avoid creosote build-up.
2. Remove excess ash after each use. Do not wait for the ashes to overflow the fireplace. Excess ash can obstruct the supply of fresh air during combustion.
Ash removal is explained in the *USE* section of this manual.
3. Cleaning the inside of the glass:
 - Tilt the door 90° using the fireplace handle.
 - Protect painted parts and flooring.
 - Finish with a non-abrasive glass cleaner or clear water. It is also possible to use ashes and water to effectively clean accumulated soot.

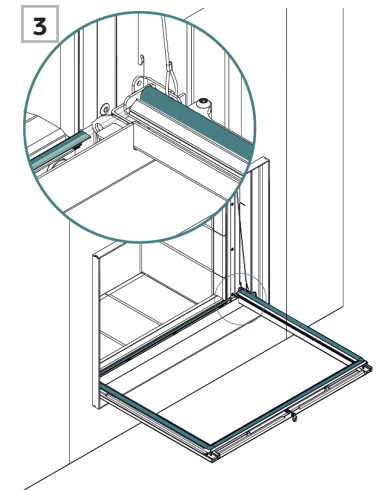
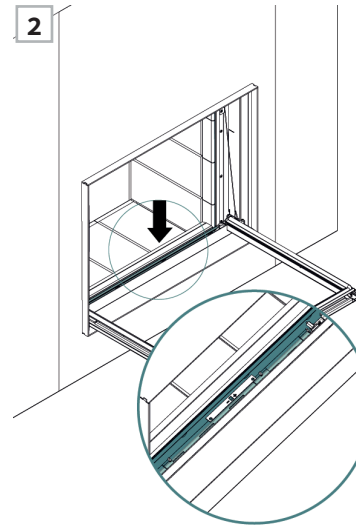
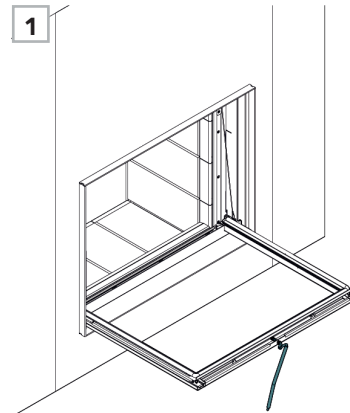
Stûv recommends using genuine replacement parts. Using a substitute may affect the unit's operation and will void the warranty. **Contact a Stûv dealer** in the event of deterioration of the parts.

Step 1 Tilt the door forward.

Step 2 Vacuum any ashes that may have accumulated under the glass door in the joint section.

Step 3 Check the condition of the woven gasket around the door perimeter and the lower silicone gasket.

Contact a Stûv dealer in case of damage to the gaskets.



7.2 ANNUAL MAINTENANCE



CAUTION

Before carrying out maintenance, wait until the unit has cooled down completely. The glass needs to be lowered completely in order to be able to tilt the door.

These four steps are described below.

- Vacuum the ashes from the joint section.
- Check condition of gaskets
- Lubricate the slides
- Clean the glass closing magnets

At least once every two years, remove and clean the smoke deflector to prevent soot from blocking the smoke outlet.

7.2 ANNUAL MAINTENANCE



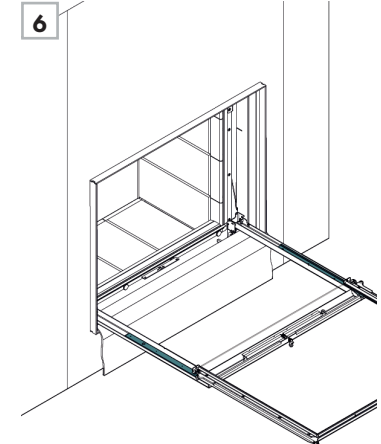
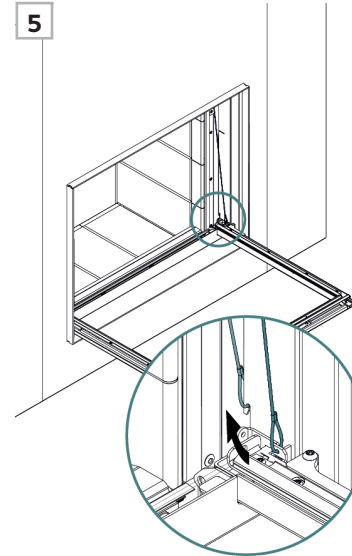
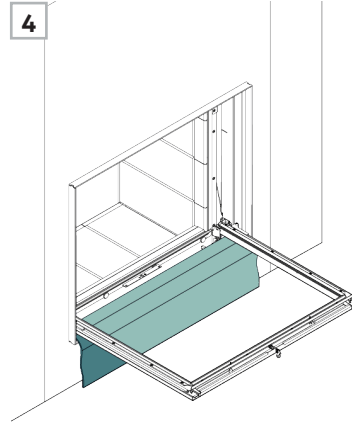
Step 4 Place a support and/or a cloth to remove the door and avoid damaging the paint

Step 5 Unhook the cables from the door and attach them in *standby* mode.

! CAUTION

The cable must be held tight to make sure not to lose it!

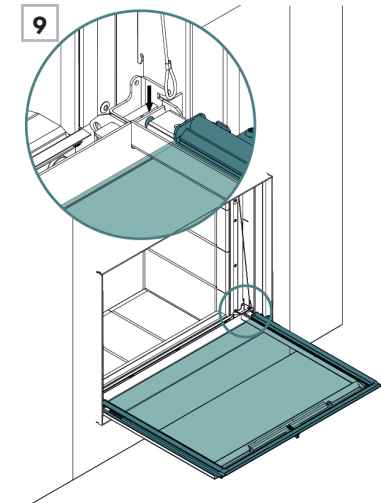
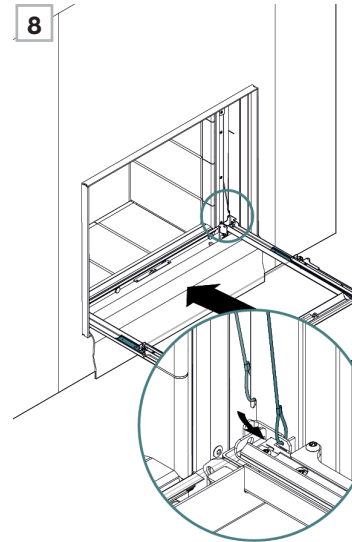
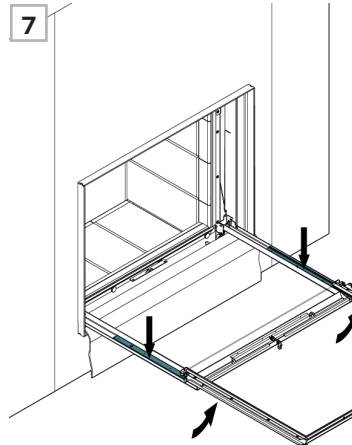
Step 6 Slide the pane as far as it will go to gain access to the side slides.



Step 7 Lubricate both sides (top and bottom) of both slides with the high-temperature lubricant (15 g tube – supplied with the fireplace).

Step 8 Slide the glass towards the fireplace and replace the 2 counterweight cables on the sliding parts.

Step 9 Slide the glass ± 4 cm and wipe the magnets with a cloth to remove any metal residue that may have stuck to them.



7.3 RUST FINISH



CAUTION

For s21CLAD – rust finish only.

In order to maintain a beautiful finish on the fireplace cladding, it is recommended to apply a protective oil on all rusty surfaces once a year.

Step 1 Protect the area around the cladding to avoid oil stains.

Step 2 Clean the cladding with a lint-free rag and water.

Step 3 Prepare the **recipe for protective oil** :

2/3 Linseed oil

1/3 Turpentine

Step 4 Apply the oil on the cladding with lint-free rags. Change rag often (6 to 8 rags for (6 to 8 for an SF / 12 to 18 for a DF)

Step 5 Leave it to dry for 15 to 20 minutes.

Step 6 Wipe excess of oil with a clean rag.



CAUTION

- Use a lint-free cloth to avoid residue on the cladding during application. The ingredients for the recipe can be found in a hardware store.
- Discard the rags in a safe place as these can be flammable.

For more information, please contact our customer service : 1-866-487-7888



POWDER-COATED FINISH

The paint supplied in the fireplace accessory box is strictly reserved for touch-ups on the door frame. The s21CLAD cladding is electrostatically painted and cannot be touched up under any circumstances.

Contact technical support if needed.

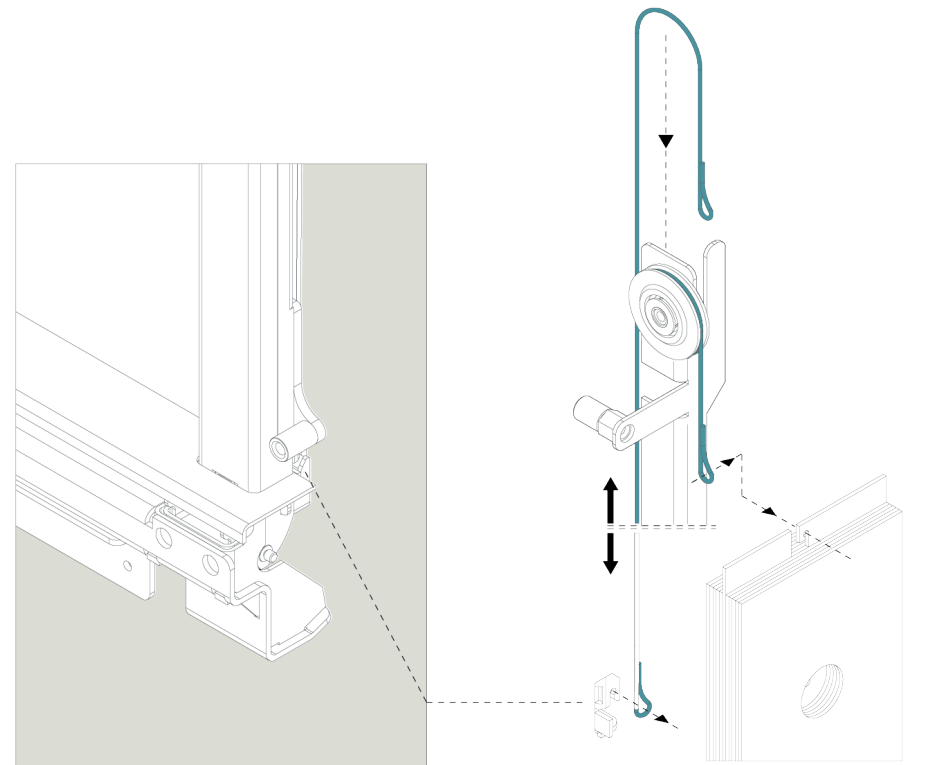
7.4 PULLEYS AND COUNTERWEIGHT



The s21 range of fireplaces is equipped with a guillotine door that works with a system of pulleys and counterweights. The basic principle is quite simple:

1. A steel wire is attached to a hook at the bottom of the glass frame.
2. The cable is then placed on a pulley fixed on the top of the unit.
3. The second end of the wire hooks onto a free counterweight located on the sides of the fireplace.
4. When you lift the handle cylinder located at the bottom right or left of the glass, an upward movement brings the counterweight down, giving you access to the fireplace hearth.

For details on how to operate and reinstall the cable of the pulleys, see section **INSTALLATION** on page 27.



7.5 GLASS AND GASKETS

CLEANING THE GLASS

- Do not clean the door when the glass is hot.
- Using cleaning products will quickly degrade the gaskets. However, it is possible to use standard glass-cleaning products to clean the glass, on the inside and outside of the door.
- It is also possible to clean the glass using only water and ash.
- If the door is very dirty, it will be easier to remove it and place it on a soft surface in order to clean it.
- Do not use abrasive cleaners.
- Use a cloth to clean the components.

Note: A spray paint can is supplied with the stove for touch-ups. When painting, do a test on another surface to avoid putting solvent on the existing paint. The surface to repaint must be smooth, clean and free of grease. Read the instructions on the spray paint can's label.

CREOSOTE – FORMATION AND NEED FOR REMOVAL

Creosote is a thick, black residue that forms due to incomplete combustion of wood. It can be brittle or smooth (vitrified). During slow combustion, wood releases tar droplets that condense on the cold chimney lining. The shape of the residue varies with time and the internal temperature of the lining on which the creosote vapours condense. The presence in a chimney of soot or creosote in excess of 3 mm thick will indicate the need for immediate cleaning, possible modification of burning procedures, and more frequent inspections.

This build-up of creosote can be very hazardous. When ignited, it produces an extremely hot fire in the chimney. Have your chimney professionally **inspected twice during the heating season** to assess whether or not a creosote build-up has occurred. If so, remove any built-up residue to **reduce the risk of a chimney fire**.

It is recommended that the unit's main user establish a chimney maintenance routine. Check for creosote build-up on a daily basis to get a good idea of how often the chimney needs to be swept for safety. The hotter a fire burns, the less creosote will build up. Weekly sweeping may be necessary in milder weather, while monthly sweeping can be sufficient during the colder months. **Contact your local or provincial fire department for information on how to put out a chimney fire.**

7.6 CHIMNEY SWEEPING



SOOT – FORMATION AND NEED FOR REMOVAL

When coal is burned, the products of combustion combine with moisture to form a soot residue which accumulates on the flue lining. When ignited, this soot makes an extremely hot fire. The chimney connector and chimney should be inspected at least once every two months during the heating season to determine if a soot buildup has occurred. If soot has accumulated, it should be removed to reduce the risk of a chimney fire.



Inspect the combustion chamber every two months to ensure its compliance.

CHIMNEY SWEEPING STEPS

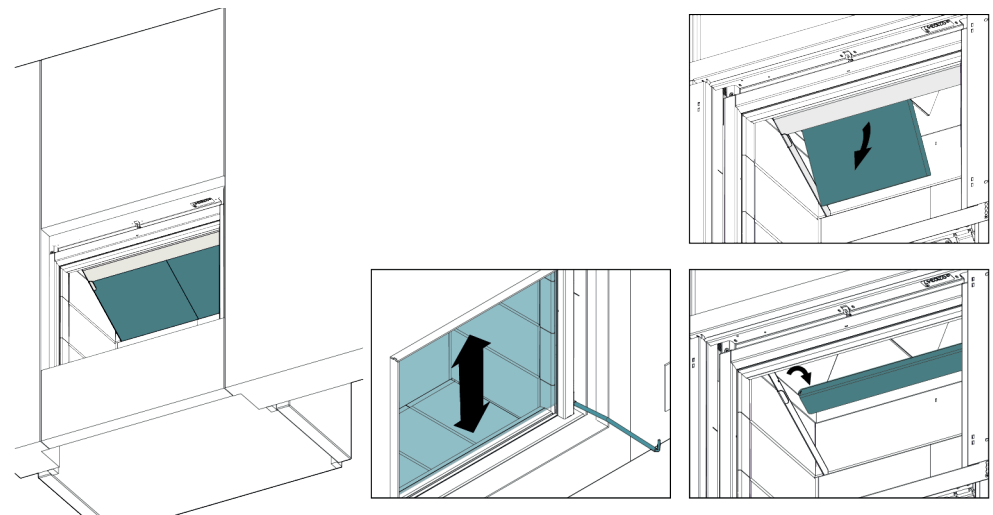
Before doing the maintenance, wait until the unit has cooled down completely.

If sweeping is done **from the inside**

- Slide the glass upwards.
- Remove the top vermiculites supported by the baffle kit.

If sweeping is done **from above** :

- Lower the glass door by pressing down on the handle cylinder.
- Carry out the sweeping according to local regulations.



7.7 COMPONENTS REPLACEMENT



ATTENTION

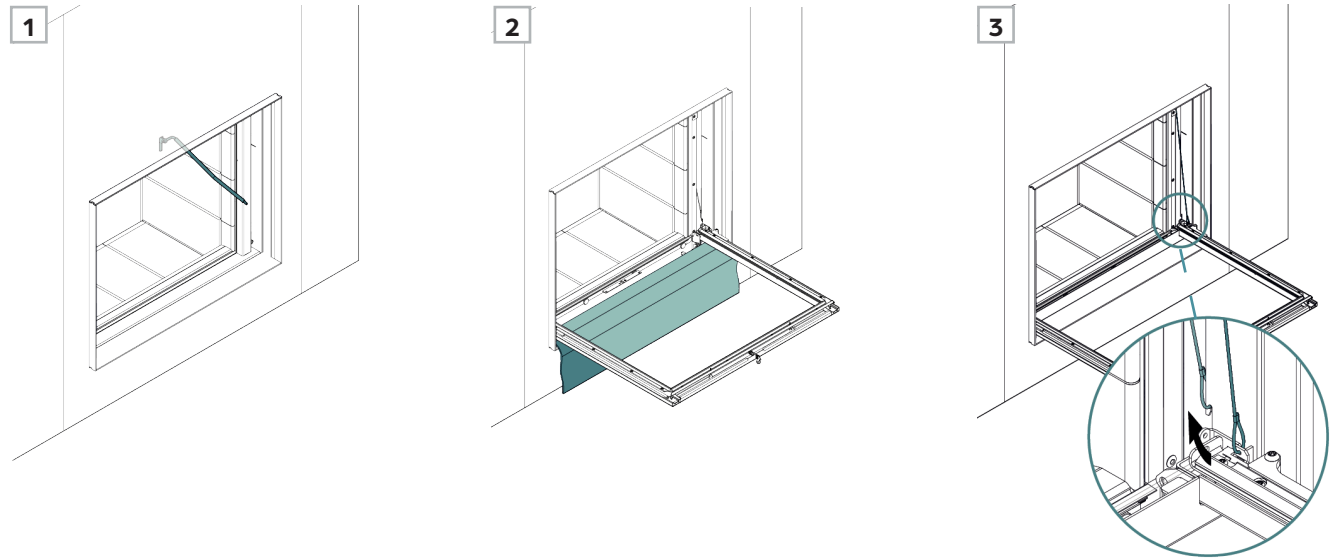
Make sure to hold the cable firmly to avoid dropping it!

DISASSEMBLY

Step 1 Using the fireplace handle open the glass door and tilt it open like an oven. It is recommended to use some kind of support on which the door will rest to avoid damage.

Step 2 Use rags to make sure the paint is protected

Step 3 Carefully unhook the counterweight cables in both bottom corners and attach them to the standby hooks made for this purpose on each side of the unit.

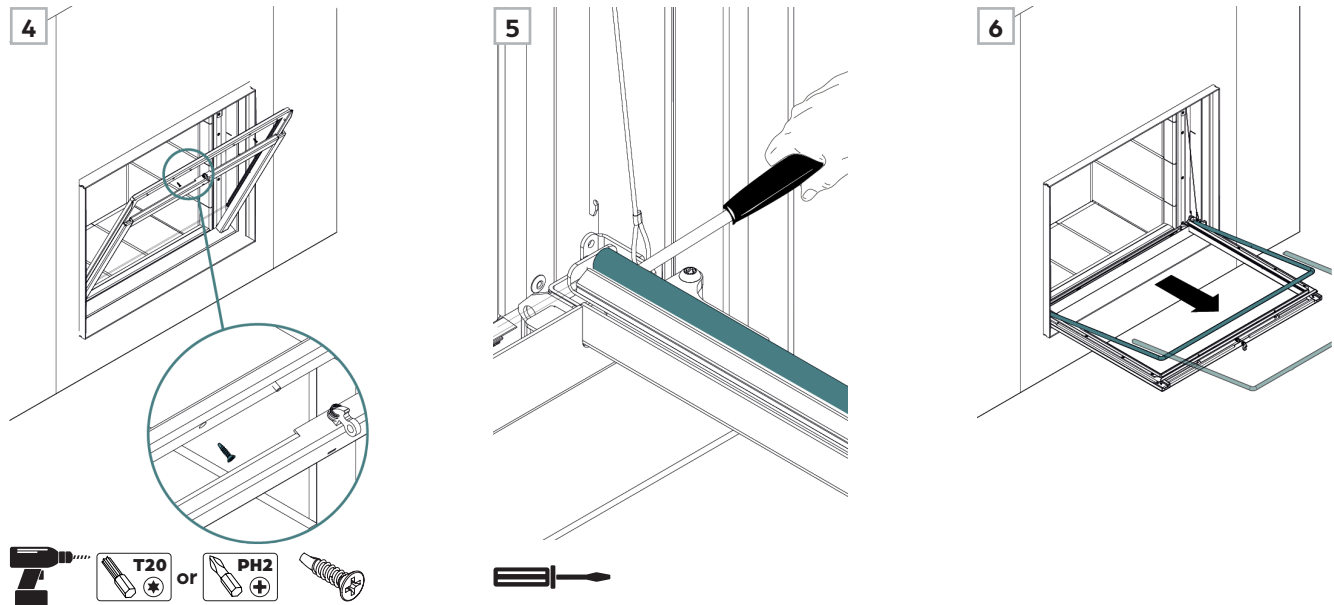


DOOR GASKET

Step 4 Tilt the door 20° up, lightly slide up approx 2". Remove the small Philips head screws from the frame holding the gasket located at the center of the glass frame.

Step 5 Using a flathead screwdriver pry the hooks on the bottom of the gasket to release the rest of the gasket/metal rod at the bottom of the glass on the frame. You will be able to lift the gasket and rod out from those hooks.

Step 6 Going from front to back remove the gasket from the frame, starting from the extremities slide it off the metal rod.



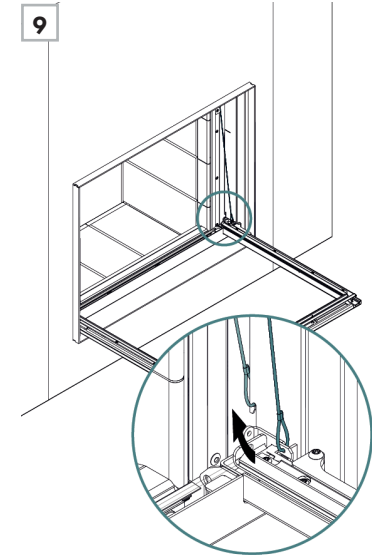
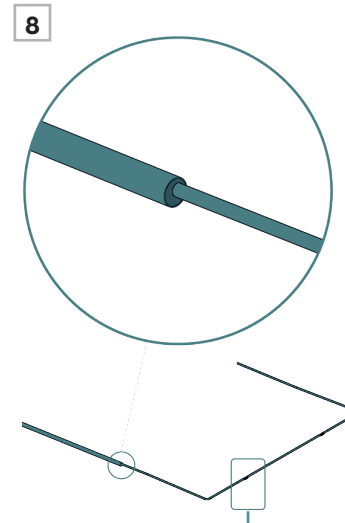
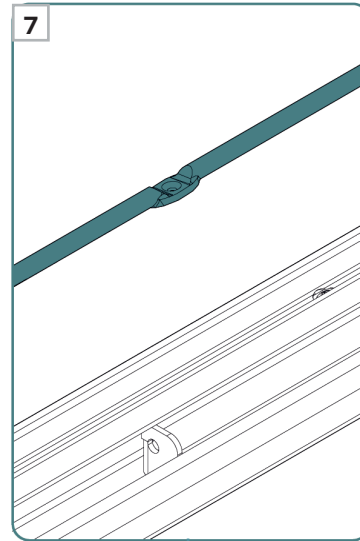
7.7 COMPONENTS REPLACEMENT



Step 7 Find the side of the frame that has perforated flat sections, these need to be facing up towards the philips screw holes.

Step 8 Slide the new gasket onto the underwire make sure they are of equal length on both sides, leaving more clearance on the horizontal part.

Step 9 Insert the two rod extremities into the two orifices at the bottom of the door making sure the flat sections are facing up, insert the gasket into the groove of the door.

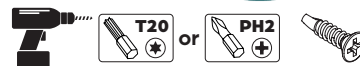
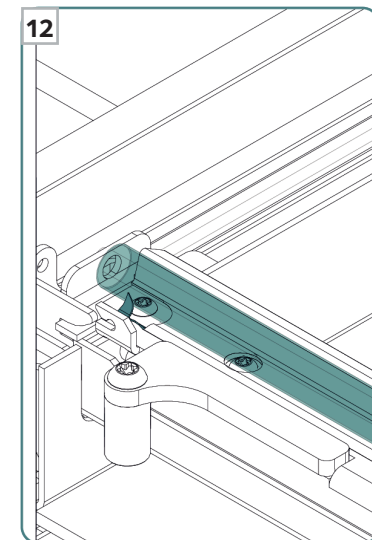
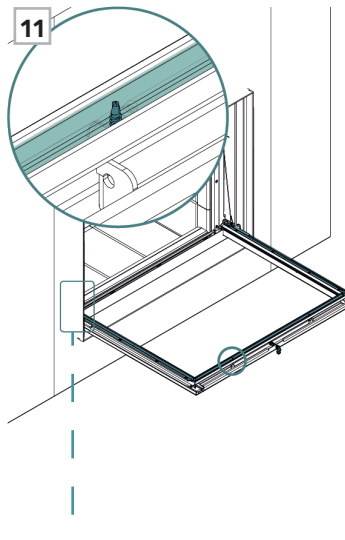
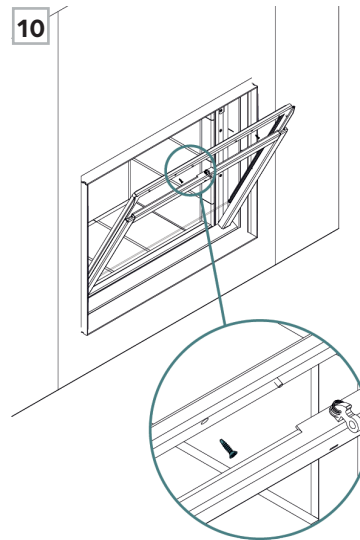


Step 10 Slightly lift the door (45°) and slide up the glass 4", secure the frame by piercing the gasket with the screw, do not tighten too much; hand tighten is perfect.

Step 11 Make sure the screws went through the frame orifice by lightly squeezing the gasket.

Step 12 Adjust the gasket by stretching the extremities to the edge of the glass. Fold the pointed flap onto the gasket by using a flathead screwdriver. Make sure the point enters well into the gasket.

Proceed to reassemble (explained at the end of the chapter)



7.7 COMPONENTS REPLACEMENT

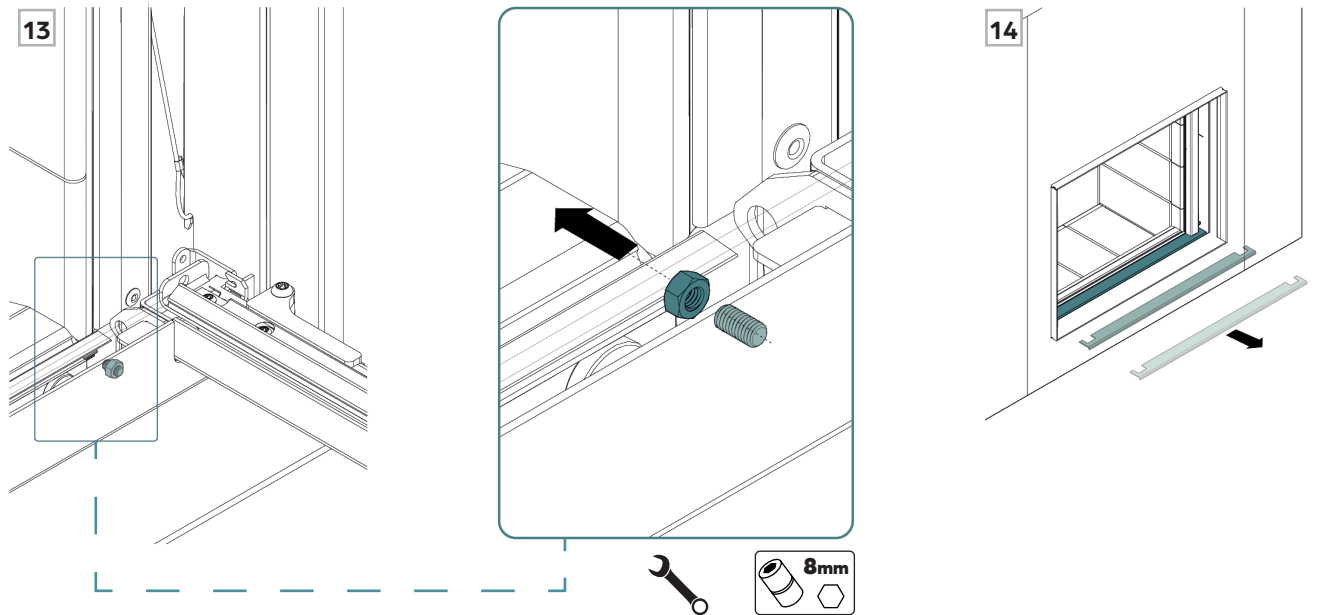


GLASS AND SLIDES

After disassembly, follow these steps:

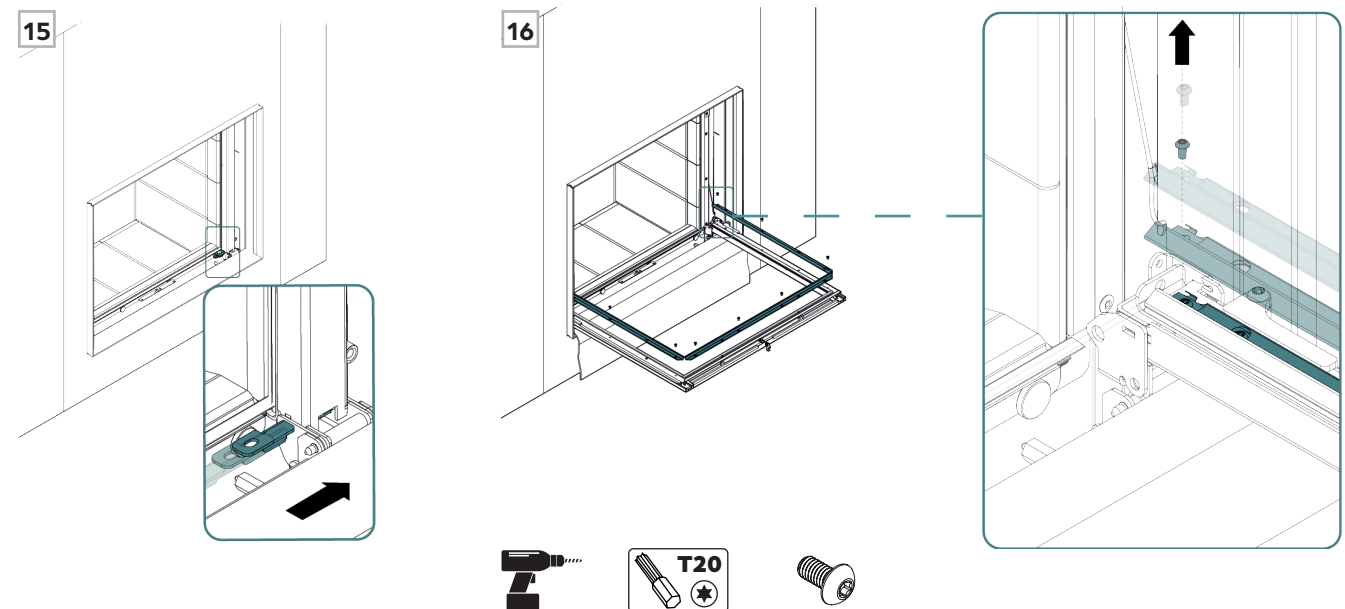
Step 13 Using an 8 mm open-end wrench, unscrew the cover plate.

Step 14 Close the door and remove the cover plate.



Step 15 Using the fireplace handle remove the keys freeing the innersprings. Put them on the left and right side.

Step 16 Unscrew and remove the glass.



7.7 COMPONENTS REPLACEMENT

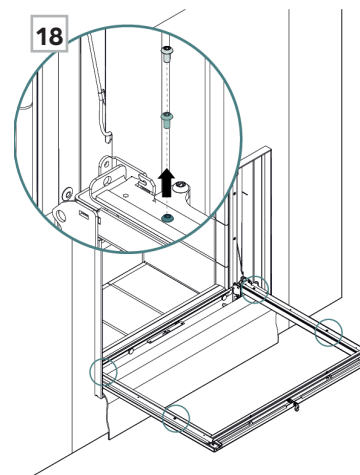
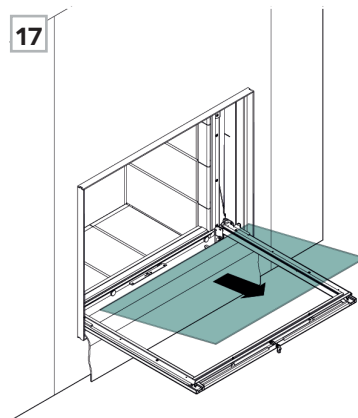


Step 17 Remove the (damaged) glass.

Stûv recommends the use of original replacement parts.

The glass must be made of 4 mm ceramic and be able to withstand high temperatures.

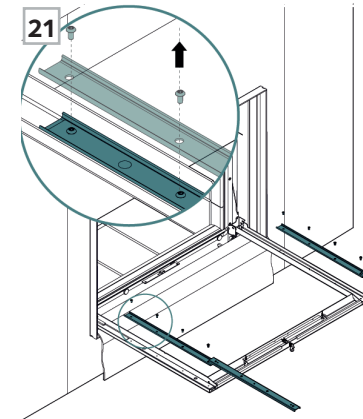
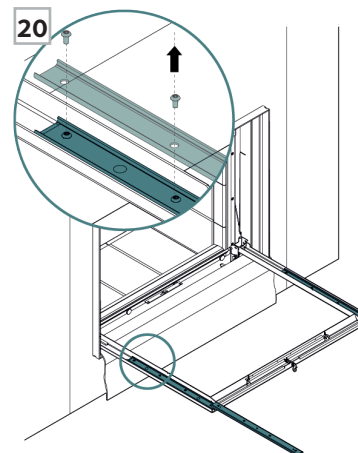
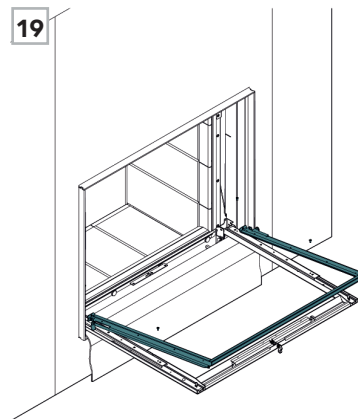
MODEL	DIMENSIONS
85	554 mm x 692 mm
95	634 mm x 790 mm
105	419 mm x 892 mm
125	554 mm x 1090 mm



Step 19 Remove the sliding door.

Step 20 Move the center part of the slide to access the four screws, then unscrew.

Step 21 Remove the (damaged) slide.



7.7 COMPONENTS REPLACEMENT



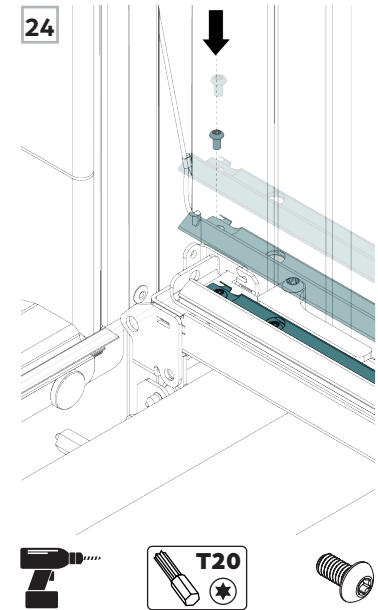
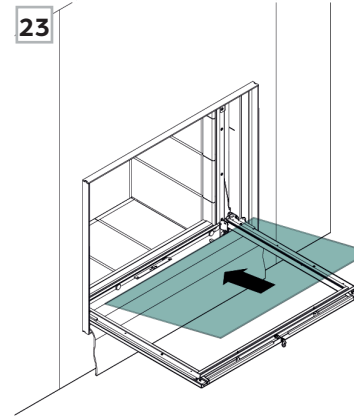
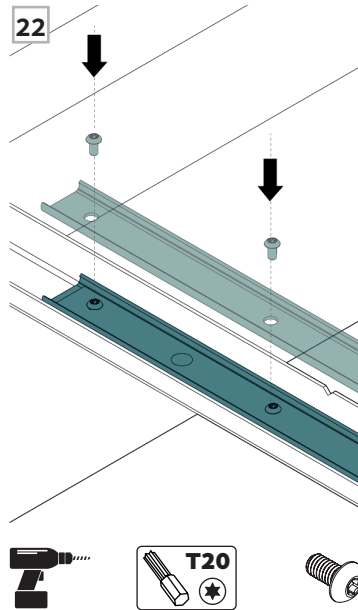
REASSEMBLY

To reassemble, proceed in reverse order. Centre the spacer.

Step 22 Screw the slide back in place using the 2 screws on each side of the sliding door frame. Make sure all seven holes are facing upwards (they must be visible).

Step 23 Place the glass. Verify that the Stüv logo is vertical in the bottom right hand corner.

Step 24 Replace the glass



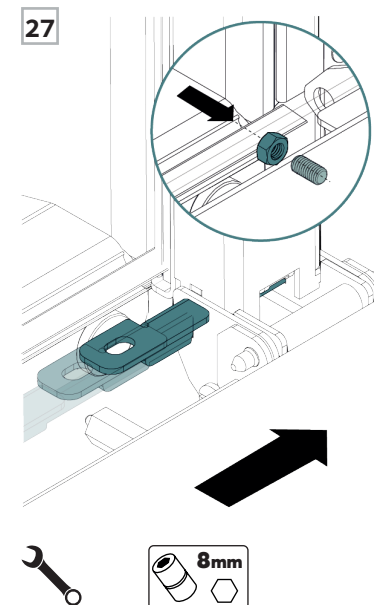
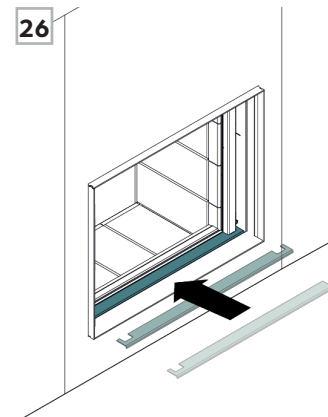
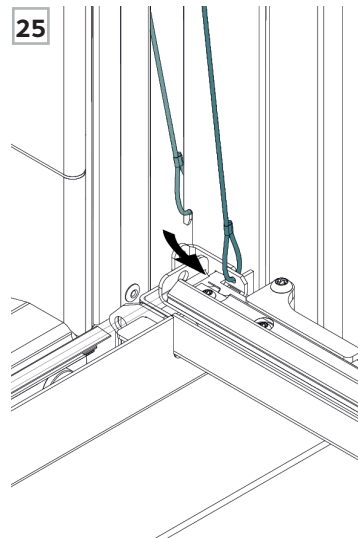
Step 25 Attach the counterweight cables to the glass door.

CAUTION

Careful not to let these cables go when reattaching.

Step 26 Put back the cover plate.

Step 27 Close the door and put back the inner springs, put back the nuts.



8

WARRANTY

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8.2	WARRANTY FORM	65



7.1 WARRANTY DETAILS



WARRANTY COVERAGE

Stûv appliances are guaranteed against:

- manufacturing defects
- paint defects on the visible parts of the unit
- glass breakage, but only if it occurs during the first firing
- shipping-related damage if we are notified within 48 hours of delivery and the damage is noted on the carrier's bill of lading when the unit is received (website)

This warranty does not cover damage to the appliance or malfunctions due to:

- installation that does not comply with the applicable regulations or the installation instructions
- abnormal use that does not comply with the directions for use
- lack of maintenance
- an external cause, such as a flood, lightning strike, fire, etc.

The warranty is limited to replacing the parts deemed defective and does not include labour or damages.

WARRANTY TERMS

This document must be returned to us, duly completed, within one month of the date of the dealer's invoice to the buyer.

Duration of the warranty:

- 5 years on the body of the appliance
- 1 year on refractory materials, gaskets, door mechanism, hinges and latches.

The warranty period begins on the date of the dealer's invoice to the buyer. The replacement of parts under warranty does not extend the duration of the initial warranty.

When an item is defective, it is important to quickly notify an authorized Stûv dealer. They will contact Stûv America to fill out the warranty form. They will need:

- the unit's serial number
- the date the unit was purchased
- an explanation of the defective item
- photos of the defective item

With this information, Stûv America will be able to validate whether the part is covered by the warranty and judge the relevance of changing it. The dealer will also be in charge of installing the new part.

CERTIFICATE OF WARRANTY

This Stûv appliance has been designed to offer you maximum pleasure, comfort and safety. It has been manufactured with the utmost care using quality materials and components to provide years of trouble-free operation.

Should you notice a defect in spite of this care, we commit to rectifying the situation. However, as a user, you also have an important role to play in getting the satisfaction you expect from your Stûv.

We strongly recommend:

- having the unit installed by a qualified professional who can ensure that the installation of the appliance and the integrity of the chimney are in compliance with the certifications and the building code,
- carefully reading the operating and maintenance instructions,
- having the chimney swept regularly (once per heating season, for regular use) to ensure optimal operation and maximum safety.

7.2 WARRANTY FORM



THE APPLIANCE

Serial no.: _____

Model: _____

Invoice date: _____

Installation date: _____

*The serial number can be found on the marking label at the bottom of the combustion chamber. The location of the label is indicated on the first page of the *CERTIFICATION* section..

THE INSTALLER

I, the undersigned,
declare that the above-mentioned appliance has been installed in
compliance with the existing regulations and in accordance with the
technical recommendations in the installation instructions.

Date: _____

Signature: _____

Company: _____

Name: _____

Address: _____

Tel no.: _____

THE DEALER

Company: _____

Name: _____

Address: _____

Tel no.: _____

THE BUYER

Name: _____

Address: _____

Email: _____

Tel no.: _____

Installation address (if different): _____

PLEASE FILL OUT THIS FORM AND SEND IT TO US VIA:

Our website: **stuvamerica.com**
On the Warranty and Product Registration page

Stûv America Inc.
34, Boulevard de l'Aéroport
Bromont Québec J2L 1S6 Canada

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Tel.: +1 -866-487-7888
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Stûv fireplaces are designed and
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Stûv sa – Belgium
stuv.com

Rue Jules Borbouse n°4 B-5170
Bois-de-Villers

And distributed in North America by:

Stûv America inc. – Canada
stuvamerica.com

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